# sportsreference Documentation

Release 0.1.0

**Author** 

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Sportsreference is a free python API that pulls the stats from www.sports-reference.com and allows them to be easily be used in python-based applications, especially ones involving data analytics and machine learning.

Sportsreference exposes a plethora of sports information from major sports leagues in North America, such as the MLB, NBA, College Football and Basketball, NFL, and NHL. Every sport has its own set of valid API queries ranging from the list of teams in a league, to the date and time of a game, to the total number of wins a team has secured during the season, and many, many more metrics that paint a more detailed picture of how a team has performed during a game or throughout a season.

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# CHAPTER 1

Examples

The following are a few examples showcasing how easy it can be to collect an abundance of metrics and information from all of the tracked leagues. The examples below are only a miniscule subset of the total number of statistics that can be pulled using sportsreference. Visit the documentation on Read The Docs for a complete list of all information exposed by the API.

# 1.1 Get instances of all NHL teams for the 2018 season

```
from sportsreference.nhl.teams import Teams
teams = Teams(2018)
```

# 1.2 Print every NBA team's name and abbreviation

```
from sportsreference.nba.teams import Teams

teams = Teams()
for team in teams:
    print(team.name, team.abbreviation)
```

# 1.3 Get a specific NFL team's season information

```
from sportsreference.nfl.teams import Teams

teams = Teams()
lions = teams('DET')
```

# 1.4 Print the date of every game for a NCAA Men's Basketball team

```
from sportsreference.ncaab.schedule import Schedule

purdue_schedule = Schedule('purdue')
for game in purdue_schedule:
    print(game.date)
```

# 1.5 Print the number of interceptions by the away team in a NCAA Football game

```
from sportsreference.ncaaf.boxscore import Boxscore

championship_game = Boxscore('2018-01-08-georgia')
print(championship_game.away_interceptions)
```

# 1.6 Get a Pandas DataFrame of all stats for a MLB game

```
from sportsreference.mlb.boxscore import Boxscore

game = Boxscore('BOS201806070')
df = game.dataframe
```

# 1.6.1 API Documentation

# 1.6.1.1 MLB Package

The MLB package offers multiple modules which can be used to retrieve information and statistics for Major League Baseball, such as team names, season stats, game schedules, and boxscore metrics.

# **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of runs scored to the number of sacrifice flies, to the slugging percentage and much more. The Boxscore can be easily queried by passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.mlb.boxscore import Boxscore

game_data = Boxscore('BOS/BOS201808020')
print(game_data.home_runs) # Prints 15
print(game_data.away_runs) # Prints 7
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from datetime import datetime
from sportsreference.mlb.boxscore import Boxscores

games_today = Boxscores(datetime.today())
print(games_today.games) # Prints a dictionary of all matchups for today
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from datetime import datetime
from sportsreference.mlb.boxscore import Boxscores

# Pulls all games between and including July 17, 2017 and July 20, 2017
games = Boxscores(datetime(2017, 7, 17), datetime(2017, 7, 20))
# Prints a dictionary of all results from July 17, 2017 and July 20, 2017
print(games.games)
```

# class sportsreference.mlb.boxscore.Boxscore(uri) Bases: object

Detailed information about the final statistics for a game.

Stores all relevant information for a game such as the date, time, location, result, and more advanced metrics such as the number of strikes, a pitcher's influence on the game, the number of putouts and much more.

**Parameters uri** (*string*) – The relative link to the boxscore HTML page, such as 'BOS/BOS201806070'.

# attendance

Returns an int of the game's listed attendance.

# away\_assists

Returns an int of the number of assists the away team registered.

#### away\_at\_bats

Returns an int of the number of at bats the away team had.

# away\_average\_leverage\_index

Returns a float of the amount of pressure the away team's pitcher faced during the game. 1.0 denotes average pressure while numbers less than 0 denote lighter pressure.

#### away\_base\_out\_runs\_added

Returns a float of the number of base out runs added by the away team.

# away\_base\_out\_runs\_saved

Returns a float of the number of runs saved by the away pitcher based on the number of players on bases. 0.0 denotes an average value.

# away\_bases\_on\_balls

Returns an int of the number of bases the away team registerd as a result of balls.

#### away\_batting\_average

Returns a float of the batting average for the away team.

# away\_earned\_runs

Returns a float of the number of runs the away team earned.

# away\_fly\_balls

Returns an int of the number of fly balls the away team allowed.

#### away\_game\_score

Returns an int of the starting away pitcher's score determine by many factors, such as number of runs scored against, number of strikes, etc.

#### away\_grounded\_balls

Returns an int of the number of grounded balls the away team allowed.

#### away hits

Returns an int of the number of hits the away team had.

#### away\_home\_runs

Returns an int of the number of times the away team gave up a home run.

#### away\_inherited\_runners

Returns an int of the number of runners a pitcher inherited when he entered the game.

#### away\_inherited\_score

Returns an int of the number of scorers a pitcher inherited when he entered the game.

# away\_innings\_pitched

Returns a float of the number of innings the away team pitched.

#### away\_line\_drives

Returns an int of the number of line drives the away team allowed.

# away\_on\_base\_percentage

Returns a float of the percentage of at bats that result in the batter getting on base.

#### away\_on\_base\_plus

Returns a float of the on base percentage plus the slugging percentage. Percentage ranges from 0-1.

#### away\_pitches

Returns an int of the number of pitches the away team faced.

# away\_plate\_appearances

Returns an int of the number of plate appearances the away team made.

# away\_putouts

Returns an int of the number of putouts the away team registered.

#### away\_rbi

Returns an int of the number of runs batted in the away team registered.

# away\_runs

Returns an int of the number of runs the away team scored.

# away\_slugging\_percentage

Returns a float of the slugging percentage for the away team based on the number of bases gained per at-bat with bigger plays getting more weight.

# away\_strikeouts

Returns an int of the number of times the away team was struck out.

# away\_strikes

Returns an int of the number of times a strike was called against the away team.

#### away\_strikes\_by\_contact

Returns an int of the number of times the away team struck out a batter who made contact with the pitch.

# away\_strikes\_looking

Returns an int of the number of times the away team struck out a batter who was looking.

# away\_strikes\_swinging

Returns an int of the number of times the away team struck out a batter who was swinging.

#### away\_unknown\_bat\_type

Returns an int of the number of away at bats that were not properly tracked and therefore cannot be safely placed in another statistical category.

#### away\_win\_probability\_added

Returns a float of the total positive influence the away team's offense had on the outcome of the game.

#### away\_win\_probability\_by\_pitcher

Returns a float of the amount of influence the away pitcher had on the game's result with 0.0 denoting zero influence and 1.0 denoting he was solely responsible for the team's win.

#### away\_win\_probability\_for\_offensive\_player

Returns a float of the overall influence the away team's offense had on the outcome of the game where 0.0 denotes no influence and 1.0 denotes the offense was solely responsible for the outcome.

# away\_win\_probability\_subtracted

Returns a float of the total negative influence the away team's offense had on the outcome of the game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as 'BOS201806070'.

#### date

Returns a string of the date the game took place.

#### duration

Returns a string of the game's duration in the format 'H – MM'.

#### home assists

Returns an int of the number of assists the home team registered.

# home\_at\_bats

Returns an int of the number of at bats the home team had.

# home\_average\_leverage\_index

Returns a float of the amount of pressure the home team's pitcher faced during the game. 1.0 denotes average pressure while numbers less than 0 denote lighter pressure.

# home\_base\_out\_runs\_added

Returns a float of the number of base out runs added by the home team.

# home\_base\_out\_runs\_saved

Returns a float of the number of runs saved by the home pitcher based on the number of players on bases. 0.0 denotes an average value.

# home\_bases\_on\_balls

Returns an int of the number of bases the home team registerd as a result of balls.

#### home\_batting\_average

Returns a float of the batting average for the home team.

# home\_earned\_runs

Returns a float of the number of runs the home team earned.

# home\_fly\_balls

Returns an int of the number of fly balls the home team allowed.

#### home\_game\_score

Returns an int of the starting home pitcher's score determine by many factors, such as number of runs scored against, number of strikes, etc.

# home\_grounded\_balls

Returns an int of the number of grounded balls the home team allowed.

#### home hits

Returns an int of the number of hits the home team had.

# home\_home\_runs

Returns an int of the number of times the home team gave up a home run.

#### home\_inherited\_runners

Returns an int of the number of runners a pitcher inherited when he entered the game.

#### home inherited score

Returns an int of the number of scorers a pitcher inherited when he entered the game.

# home\_innings\_pitched

Returns a float of the number of innings the home team pitched.

#### home\_line\_drives

Returns an int of the number of line drives the home team allowed.

## home\_on\_base\_percentage

Returns a float of the percentage of at bats that result in the batter getting on base.

#### home on base plus

Returns a float of the on base percentage plus the slugging percentage. Percentage ranges from 0-1.

#### home\_pitches

Returns an int of the number of pitches the home team faced.

#### home plate appearances

Returns an int of the number of plate appearances the home team made.

#### home putouts

Returns an int of the number of putouts the home team registered.

# home\_rbi

Returns an int of the number of runs batted in the home team registered.

#### home runs

Returns an int of the number of runs the home team scored.

# home\_slugging\_percentage

Returns a float of the slugging percentage for the home team based on the number of bases gained per at-bat with bigger plays getting more weight.

# home strikeouts

Returns an int of the number of times the home team was struck out.

#### home strikes

Returns an int of the number of times a strike was called against the home team.

#### home\_strikes\_by\_contact

Returns an int of the number of times the home team struck out a batter who made contact with the pitch.

# home\_strikes\_looking

Returns an int of the number of times the home team struck out a batter who was looking.

# home\_strikes\_swinging

Returns an int of the number of times the home team struck out a batter who was swinging.

# home\_unknown\_bat\_type

Returns an int of the number of home at bats that were not properly tracked and therefore cannot be safely placed in another statistical category.

# home\_win\_probability\_added

Returns a float of the total positive influence the home team's offense had on the outcome of the game.

# home\_win\_probability\_by\_pitcher

Returns a float of the amount of influence the home pitcher had on the game's result with 0.0 denoting zero influence and 1.0 denoting he was solely responsible for the team's win.

# home\_win\_probability\_for\_offensive\_player

Returns a float of the overall influence the home team's offense had on the outcome of the game where 0.0 denotes no influence and 1.0 denotes the offense was solely responsible for the outcome.

# home\_win\_probability\_subtracted

Returns a float of the total negative influence the home team's offense had on the outcome of the game.

#### losing\_abbr

Returns a string of the losing team's abbreviation, such as 'LAD' for the Los Angeles Dodgers.

# losing\_name

Returns a string of the losing team's name, such as 'Los Angeles Dodgers'.

#### time

Returns a string of the time the game started.

#### time of day

Returns a string constant indicated whether the game was played during the day or at night.

#### venue

Returns a string of the name of the ballpark where the game was played.

#### winner

Returns a string constant indicating whether the home or away team won.

# winning abbr

Returns a string of the winning team's abbreviation, such as 'HOU' for the Houston Astros.

# winning\_name

Returns a string of the winning team's name, such as 'Houston Astros'.

```
class sportsreference.mlb.boxscore.Boxscores(date, end_date=None)
    Bases: object
```

Search for MLB games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

#### **Parameters**

- date (datetime object) The date to search for any matches. The month, day, and year are required for the search, but time is not factored into the search.
- end\_date (datetime object (optional)) Optionally specify an end date to iterate until. All boxscores starting from the date specified in the 'date' parameter up to and including the boxscores specified in the 'end\_date' parameter will be pulled. If left empty, or if 'end\_date' is prior to 'date', only the games from the day specified in the 'date' parameter will be saved.

# games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

```
{
    'date': [ # 'date' is the string date in format 'MM-DD-YYYY'
    {
```

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```
'home_name': Name of the home team, such as 'New York
                     Yankees' (`str`),
        'home_abbr': Abbreviation for the home team, such as
                     'NYY' (`str`),
        'away_name': Name of the away team, such as 'Houston
                     Astros' (`str`),
        'away_abbr': Abbreviation for the away team, such as
                     'HOU' (`str`),
        'boxscore': String representing the boxscore URI, such
                   as 'SLN/SLN201807280' (`str`),
        'winning_name': Full name of the winning team, such as
                        'New York Yankees' (`str`),
        'winning_abbr': Abbreviation for the winning team, such
                        as 'NYY' (`str`),
        'losing_name': Full name of the losing team, such as
                       'Houston Astros' (`str`),
        'losing_abbr': Abbreviation for the losing team, such
                       as 'HOU' (`str`),
        'home_score': Integer score for the home team (`int`),
        'away_score': Integer score for the away team (`int`)
    },
    { ... },
]
```

If no games were played on 'date', the list for ['date'] will be empty.

# Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career home runs to single-season stats and player height, weight, and nationality. The following is an example on collecting career information for José Altuve.

```
from sportsreference.mlb.roster import Player

altuve = Player('altuvjo01')
print(altuve.name) # Prints 'José Altuve'
print(altuve.hits) # Prints Altuve's career hits total
# Prints a Pandas DataFrame of all relevant stats per season for Altuve
print(altuve.dataframe)
```

By default, the player's career stats are returned whenever a property is called. To get stats for a specific season, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.mlb.roster import Player

altuve = Player('altuvjo01')  # Currently pulling career stats
print(altuve.hits)  # Prints Altuve's CAREER hits total
# Prints Altuve's hits total only for the 2017 season
print(altuve('2017').hits)
# Prints Altuve's home runs total for the 2017 season only
print(altuve.home_runs)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.mlb.roster import Player

altuve = Player('altuvjo01') # Currently pulling career stats
# Prints Altuve's hits total only for the 2017 season
print(altuve('2017').hits)
print(altuve('Career').hits) # Prints Altuve's career hits total
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.mlb.roster import Roster

astros = Roster('HOU')
for player in astros.players:
    # Prints the name of all players who played for the Astros in the most
    # recent season.
    print(player.name)
```

```
class sportsreference.mlb.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'altuvjo01' for Jose Altuve, capture all relevant stats and information like name, nationality, height/weight, career home runs, last season's batting average, salary, contract amount, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on baseball-reference.com.

**Parameters player\_id** (string) – A player's ID according to basketball-reference.com, such as 'altuvjo01' for Jose Altuve. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.html' in the URL. In general, the ID is in the format 'LLLLLFFNN' where 'LLLLL' are the first 5 letters in the player's last name, 'FF', are the first 2 letters in the player's first name, and 'NN' is a number starting at '01' for the first time that player ID has been used and increments by 1 for every successive player.

#### assists

Returns an int of the number of assists the player had.

# at\_bats

Returns an int of the number of at bats the player had.

#### balks

Returns an int of the number of times the pitcher balked.

# bases\_on\_balls

Returns an int of the number of bases the player registered as a result of balls.

# bases\_on\_balls\_given

Returns an int of the number of bases on balls the player has given as a pitcher.

# bases\_on\_balls\_given\_per\_nine\_innings

Returns a float of the number of bases on balls the pitcher has given per nine innings played.

#### batters\_faced

Returns an int of the number of batters the pitcher has faced.

# batters\_struckout\_per\_nine\_innings

Returns a float of the number of batters the pitcher has struck out per nine innings played.

#### batting average

Returns a float of the batting average for the player.

# birth\_date

Returns a datetime object of the day and year the player was born.

#### complete\_games

Returns an int of the number of complete games the player has participated in.

#### contract

Returns a dictionary of the player's contract where each key is a string of the year, such as '2017' and each value is a dictionary with the string key-value pairs of the player's age, team name, and salary.

#### dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

# defensive\_chances

Returns an int of the number of defensive chances (equal to the number of putouts + assists + errors) the player had.

#### defensive\_runs\_saved\_above\_average

Returns an int of the number of defensive runs the player saved compared to an average player.

# defensive\_runs\_saved\_above\_average\_per\_innings

Returns an int of the number of defensive runs the player was worth per 1,200 innings compared to an average player.

# double\_plays\_turned

Returns an int of the number of double plays the player was involved in.

# doubles

Returns an int of the number of doubles the player hit.

# earned\_runs\_allowed

Returns an int of the number of earned runs the player allowed as a pitcher.

#### era

Returns a float of the pitcher's Earned Runs Average.

# era\_plus

Returns a float of the pitcher's ERA while adjusted for the ballpark.

# errors

Returns an int of the number of errors the player made.

# fielding\_independent\_pitching

Returns a float of the pitcher's effectiveness at preventing home runs, bases on balls, and hitting players with pitches, while causing strikeouts.

# fielding\_percentage

Returns a float of the players fielding percentage, equivalent to (putouts + assists) / (putouts + assists + errors). Percentage ranges from 0-1.

#### games

Returns an int of the number of games the player participated in.

# games\_catcher

Returns an int of the number of games the player was in the lineup as a catcher.

# games\_center\_fielder

Returns an int of the number of games the player was in the lineup as a center fielder.

#### games\_designated\_hitter

Returns an int of the number of games the player was in the lineup as a designated hitter.

# games\_finished

Returns an int of the number of games the player finished as a pitcher.

# games\_first\_baseman

Returns an int of the number of games the player was in the lineup as a first baseman.

#### games in batting order

Returns an int of the number of games the player was in the batting lineup.

# games\_in\_defensive\_lineup

Returns an int of the number of games the player was in the defensive lineup.

#### games\_left\_fielder

Returns an int of the number of games the player was in the lineup as a left fielder.

# games\_outfielder

Returns an int of the number of games the player was in the lineup as an outfielder.

#### games pinch hitter

Returns an int of the number of games the player was in the lineup as a pinch hitter.

# games\_pinch\_runner

Returns an int of the number of games the player was in the lineup as a pinch runner.

#### games\_pitcher

Returns an int of the number of games the player was in the lineup as a pitcher.

# games\_right\_fielder

Returns an int of the number of games the player was in the lineup as a right fielder.

# games\_second\_baseman

Returns an int of the number of games the player was in the lineup as a second baseman.

# games\_shortstop

Returns an int of the number of games the player was in the lineup as a shortstop.

# games\_started

Returns an int of the number of games the player started.

# games\_third\_baseman

Returns an int of the number of games the player was in the lineup as a third baseman.

# grounded\_into\_double\_plays

Returns an int of the number of double plays the player grounded into.

#### height

Returns a string of the players height in the format "feet-inches".

#### hits

Returns an int of the number of hits the player had.

# hits\_against\_per\_nine\_innings

Returns a float of the number of hits the player has given per nine innings played.

#### hits allowed

Returns an int of the number of hits the player allowed as a pitcher.

# home\_runs

Returns an int of the number of home runs the player hit.

#### home\_runs\_against\_per\_nine\_innings

Returns a float of the number of home runs the pitcher has given per nine innings played.

#### home runs allowed

Returns an int of the number of home runs a player has allowed as a pitcher.

# innings\_played

Returns a float of the total number of innings the player has played in.

#### intentional bases on balls

Returns an int of the number of times the player has been intentionally walked by the opposition.

# intentional\_bases\_on\_balls\_given

Returns an int of the number of bases the player has intentionally given as a pitcher.

#### league\_fielding\_percentage

Returns a float of the average fielding percentage for the league at the player's position. Percentage ranges from 0-1.

# league\_range\_factor\_per\_game

Returns a float of the average range factor for the league per game, equal to (putouts + assists) / games\_played.

# league\_range\_factor\_per\_nine\_innings

Returns a float of the average range factor for the league per nine innings, equal to 9 \* (putouts + assists) / innings\_played.

#### losses

Returns an int of the number of games the player has lost as a pitcher.

#### name

Returns a string of the player's name, such as 'Jose Altuve'.

# nationality

Returns a string constant denoting which country the player originiates from.

# on\_base\_percentage

Returns a float of the percentage of at bats that result in the batter getting on base.

#### on\_base\_plus\_slugging\_percentage

Returns a float of the on base percentage plus the slugging percentage. Percentage ranges from 0-1.

# on\_base\_plus\_slugging\_percentage\_plus

Returns an int of the on base percentage plus the slugging percentage, adjusted to the player's ballpark.

# plate\_appearances

Returns an int of the number of plate appearances the player had.

#### player id

Returns a string of the player's ID on sports-reference, such as 'altuvjo01' for Jose Altuve.

# position

Returns a string constant of the player's primary position.

# putouts

Returns an int of the number of putouts the player had.

# range\_factor\_per\_game

Returns a float of the players range factor per game, equal to 9 \* (putouts + assists) / games\_played.

# range\_factor\_per\_nine\_innings

Returns a float of the players range factor per nine innings, equal to 9 \* (putouts + assists) / innings played.

#### runs

Returns an int of the number of runs the player scored.

# runs\_allowed

Returns an int of the number of runs the player allowed as a pitcher.

#### runs batted in

Returns an int of the number of runs batted in the player registered.

#### sacrifice flies

Returns an int of the number of sacrifice flies the player hit.

#### sacrifice hits

Returns an int of the number of sacrifice hits or sacrafice bunts the player made.

#### saves

Returns an int of the number of saves the player made as a pitcher.

#### season

Returns a string of the season in the format 'YYYY', such as '2017'. If no season was requsted, the career stats will be returned for the player and the season will default to 'Career'.

#### shutouts

Returns an int of the number of times the player did not allow any runs and threw a complete game as a pitcher.

#### slugging percentage

Returns a float of the slugging percentage for the player based on the number of bases gained per at-bat with bigger plays getting more weight.

# stolen\_bases

Returns an int of the number of bases the player has stolen.

# strikeouts

Returns an int of the number of strikeouts the player threw as a pitcher.

# strikeouts\_thrown\_per\_walk

Returns a float of the number of batters the pitcher has struck out per the number of walks given.

#### team\_abbreviation

Returns a string of the team's abbreviation, such as 'HOU' for the Houston Astros.

# times caught stealing

Returns an int of the number of times the player was caught stealing.

# times\_hit\_by\_pitch

Returns an int of the number of times the player has been hit by a pitch.

#### times\_hit\_player

Returns an int of the number of times the pitcher hit a player with a pitch.

# times\_struck\_out

Returns an int of the number of times the player was struck out.

# total\_bases

Returns an int of the number of bases the player has gained.

# total\_fielding\_runs\_above\_average

Returns an int of the number of runs the player was worth compared to an average player.

# total\_fielding\_runs\_above\_average\_per\_innings

Returns an int of the number of runs the player was worth per 1,200 innings compared to an average player.

#### triples

Returns an int of the number of triples the player hit.

# weight

Returns an int of the player's weight in pounds.

# whip

Returns a float of the pitcher's WHIP score, equivalent to (bases on balls + hits) / innings played.

#### wild pitches

Returns an int of the number of wild pitches the player has thrown.

#### win\_percentage

Returns a float of the players winning percentage as a pitcher. Percentage ranges from 0-1.

#### wins

Returns an int of the number of games the player has won as a pitcher.

```
class sportsreference.mlb.roster.Roster(team, year=None)
    Bases: object
```

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the players statistics and information.

#### **Parameters**

- **team** (*string*) The team's abbreviation, such as 'HOU' for the Houston Astros.
- **year** (string (optional)) The 4-digit year to pull the roster from, such as '2018'. If left blank, defaults to the most recent season.

# players

Returns a list of player instances for each player on the requested team's roster.

# **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.mlb.schedule import Schedule
houston_schedule = Schedule('HOU')
for game in houston_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
    # Creates an instance of the Boxscore class for the game.
    boxscore = game.boxscore
```

```
class sportsreference.mlb.schedule.Game(game_data, year)
    Bases: object
```

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

#### **Parameters**

• game\_data (string) - The row containing the specified game information.

• **year** (*string*) – The year of the current season.

#### attendance

Returns an int of the total listed attendance for the game.

#### boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

#### boxscore index

Returns a string of the URI for a boxscore which can be used to access or index a game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

#### dataframe\_extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the date the game was played on.

#### datetime

Returns a datetime object of the month, day, year, and time the game was played.

#### day\_or\_night

Returns a string constant to indicate whether the game was played during the day or night.

#### game

Returns an int of the game in the season, where 1 is the first game of the season.

# game\_duration

Returns a string of the game's total duration in the format 'H – MM'.

# game\_number\_for\_day

Returns an int denoting which game is played for the team during the given day. Default value is 1 where a team plays only one game during the day, but can be higher for double headers, etc. For example, if a team has a double header one day, the first game of the day will return 1 while the second game will return 2.

# games\_behind

Returns a float of the number of games behind the leader the team is. 0.0 indicates the team is tied for first. Negative numbers indicate the number of games a team is ahead of the second place team.

#### innings

Returns an int of the total number of innings that were played.

#### location

Returns a string constant to indicate whether the game was played at home or away.

# loser

Returns a string of the name of the losing pitcher.

# opponent\_abbr

Returns a string of the opponent's 3-letter abbreviation, such as 'NYY' for the New York Yankees.

#### rank

Returns an int of the team's rank in the league with 1 being the best team.

# record

Returns a string of the team's record in the format 'W-L'.

#### result

Returns a string constant to indicate whether the team won or lost.

# runs\_allowed

Returns an int of the total number of runs that the team allowed.

#### runs scored

Returns an int of the total number of runs that were scored by the team.

#### save

Returns a string of the name of the pitcher credited with the save if applicable. If no saves, returns None.

# streak

Returns a string of the team's winning/losing streak at the conclusion of the requested game. A winning streak is denoted by a number of '+' signs for the number of consecutive wins and a losing streak is denoted by a '-' sign.

#### winner

Returns a string of the name of the winning pitcher.

```
class sportsreference.mlb.schedule.Schedule(abbreviation, year=None)
    Bases: object
```

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

#### **Parameters**

- **abbreviation** (*string*) A team's short name, such as 'HOU' for the Houston Astros.
- year (string (optional)) The requested year to pull stats from.

# dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

# dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

# **Teams**

The Teams module exposes information for all MLB teams including the team name and abbreviation, the number of games they won during the season, the total number of bases they've stolen, and much more.

```
from sportsreference.mlb.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    print(team.batting_average) # Prints the team's season batting average
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.mlb.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.mlb.teams import Teams

for team in Teams():
    roster = team.roster # Gets each team's roster
    for player in roster.players:
        print(player.name) # Prints each players name on the roster
```

```
class sportsreference.mlb.teams.Team(team_data, rank, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as rank, name, and abbreviation, and sets them as properties which can be directly read from for easy reference.

## **Parameters**

- **team\_data** (string) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- rank (int) A team's position in the league based on the number of points they obtained during the season.
- year (string (optional)) The requested year to pull stats from.

# abbreviation

Returns a string of the team's abbreviation, such as 'HOU' for the Houston Astros.

#### at bats

Returns an int of the total number of at bats for the team.

#### average\_batter\_age

Returns a float of the average batter age weighted by their number of at bats plus the number of games participated in.

# average\_pitcher\_age

Returns a float of the average pitcher age weighted by the number of games started, followed by the number of games played and saves.

#### away losses

Returns an int of the number of away losses during the season.

# away\_record

Returns a string of the team's away record. Record is in the format 'W-L'.

#### away\_wins

Returns an int of the number of away wins during the season.

#### balks

Returns an int of the total number of times a pitcher has balked.

# bases\_on\_balls

Returns an int of the number of bases on walks.

# bases\_on\_walks\_given

Returns an int of the total number of bases from walks given up by a team during the season.

#### bases\_on\_walks\_given\_per\_nine\_innings

Returns a float of the average number of walks conceded per nine innings.

#### batters\_faced

Returns an int of the total number of batters all pitchers have faced during a season.

#### batting\_average

Returns a float of the batting average for the team. Percentage ranges from 0-1.

#### complete\_game\_shutouts

Returns an int of the total number of complete games where the opponent scored zero runs.

#### complete games

Returns an int of the total number of complete games a team has accumulated during the season.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'HOU'.

# doubles

Returns an int of the total number of doubles hit by the team.

#### earned\_runs\_against

Returns a float of the average number of earned runs against for a team.

# earned\_runs\_against\_plus

Returns an int of the team's average earned runs against, adjusted for the home ballpark.

# extra\_inning\_losses

Returns an int of the number of losses the team has when the game has gone to extra innings.

#### extra\_inning\_record

Returns a string of the team's record when the game has gone to extra innings. Record is in the format 'W-L'.

# extra\_inning\_wins

Returns an int of the number of wins the team has when the game has gone to extra innings.

# fielding\_independent\_pitching

Returns a float of the team's effectiveness at preventing home runs, walks, batters being hit by pitches, and strikeouts.

# games

Returns an int of the number of games the team has played during the season.

# games\_finished

Returns an int of the number of games finished which is equivalent to the number of games played minus the number of complete games during the season.

# grounded\_into\_double\_plays

Returns an int of the total number double plays grounded into by the team.

# hit pitcher

Returns an int of the total number of times a pitcher has hit an opposing batter.

#### hits

Returns an int of the total number of hits during the season.

# hits\_allowed

Returns an int of the total number of hits allowed during the season.

# hits\_per\_nine\_innings

Returns a float of the average number of hits per nine innings by the opponent.

#### home losses

Returns an int of the number of losses at home during the season.

#### home record

Returns a string of the team's home record. Record is in the format 'W-L'.

#### home runs

Returns an int of the total number of home runs hit by the team.

## home\_runs\_against

Returns an int of the total number of home runs given up during the season.

#### home\_runs\_per\_nine\_innings

Returns a float of the average number of home runs per nine innings by the opponent.

#### home\_wins

Returns an int of the number of wins at home during the season.

#### innings\_pitched

Returns a float of the total number of innings pitched by a team during the season.

#### intentional bases on balls

Returns an int of the total number of times a player took a base from an intentional walk.

# interleague\_record

Returns a string of the team's interleague record. Record is in the format 'W-L'.

# last\_ten\_games\_record

Returns a string of the team's record over the last ten games. Record is in the format 'W-L'.

#### last\_thirty\_games\_record

Returns a string of the team's record over the last thirty games. Record is in the format 'W-L'.

# last\_twenty\_games\_record

Returns a string of the team's record over the last twenty games. Record is in the format 'W-L'.

#### league

Returns a string of the two letter abbreviation of the league, such as 'AL' for the American League.

#### losses

Returns an int of the total number of games the team lost during the season.

# losses\_last\_ten\_games

Returns an int of the number of losses in the last 10 games.

# ${\tt losses\_last\_thirty\_games}$

Returns an int of the number of losses in the last 30 games.

#### losses\_last\_twenty\_games

Returns an int of the number of losses in the last 20 games.

# losses\_vs\_left\_handed\_pitchers

Returns an int of number of losses against left-handed pitchers.

#### losses\_vs\_right\_handed\_pitchers

Returns an int of the number of losses against right-handed pitchers.

# losses\_vs\_teams\_over\_500

Returns an int of the number of losses against teams over 500.

#### losses vs teams under 500

Returns an int of the number of losses against teams under 500.

#### luck

Returns an int of the difference between the current wins and losses compared to the pythagorean wins and losses.

# name

Returns a string of the team's full name, such as 'Houston Astros'.

#### number\_of\_pitchers

Returns an int of the total number of pitchers used during a season.

# number\_players\_used

Returns an int of the number of different players used during the season.

#### on\_base\_percentage

Returns a float of the percentage of at bats that result in a player taking a base. Percentage ranges from 0-1.

#### on\_base\_plus\_slugging\_percentage

Returns a float of the sum of the on base percentage plus the slugging percentage.

# on\_base\_plus\_slugging\_percentage\_plus

Returns an int of the on base percentage plus the slugging percentage, adjusted to the team's home ballpark.

# opposing\_runners\_left\_on\_base

Returns an int of the total number of opponents a team has left on bases at the end of an inning.

# plate\_appearances

Returns an int of the total number of plate appearances for the team.

# pythagorean\_win\_loss

Returns a string of the team's expected win-loss record based on the runs scored and allowed. Record is in the format 'W-L'.

#### rank

Returns an int of the team's rank based on their win percentage.

# record\_vs\_left\_handed\_pitchers

Returns a string of the team's record against left-handed pitchers. Record is in the format 'W-L'.

#### record\_vs\_right\_handed\_pitchers

Returns a string of the team's record against right-handed pitchers. Record is in the format 'W-L'.

# record\_vs\_teams\_over\_500

Returns a string of the team's record against teams with a win percentage over 500. Record is in the format 'W-L'.

#### record\_vs\_teams\_under\_500

Returns a string of the team's record against teams with a win percentage under 500. Record is in the format 'W-L'.

# roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

# run\_difference

Returns a float of the difference between the number of runs scored and the number of runs given up per game. Positive numbers indicate the team scores more per game than they are scored on.

#### runners\_left\_on\_base

Returns an int of the total number of runners left on base at the end of an inning.

#### runs

Returns a float of the average number of runs scored per game by the team.

# runs\_against

Returns a float of the average number of runs scored per game by the opponent.

#### runs\_allowed\_per\_game

Returns a float of the average number of runs a team has allowed per game.

#### runs batted in

Returns an int of the total number of runs batted in by the team.

# sacrifice\_flies

Returns an int of the total number of sacrifice flies the team made during the season.

#### sacrifice hits

Returns an int of the total number of sacrifice hits the team made during the season.

#### saves

Returns an int of the total number of saves a team has accumulated during the season.

#### schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

#### shutouts

Returns an int of the total number of shutouts a team has accumulated during the season.

# simple\_rating\_system

Returns a float of the average number of runs per game a team scores compared to average.

# single\_run\_losses

Returns an int of the number of losses the team has when only one run is scored.

#### single\_run\_record

Returns a string of the team's record when only one run is scored. Record is in the format 'W-L'.

# single run wins

Returns an int of the number of wins the team has when only one run is scored.

# ${\tt slugging\_percentage}$

Returns a float of the ratio of total bases gained per at bat.

#### stolen\_bases

Returns an int of the total number of bases stolen by the team.

# streak

Returns a string of the team's current winning or losing streak, such as 'W 3' for a team on a 3-game winning streak.

#### strength\_of\_schedule

Returns a float denoting a team's strength of schedule, based on runs scores and conceded. Higher values result in more challenging schedules while 0.0 is an average schedule.

# strikeouts

Returns an int of the total number of times a team has struck out an opponent.

# strikeouts\_per\_base\_on\_balls

Returns a float of the average number of strikeouts per walk thrown by a team.

# strikeouts\_per\_nine\_innings

Returns a float of the average number of strikeouts a team throws per nine innings.

# times\_caught\_stealing

Returns an int of the number of times a player was caught stealing.

#### times hit by pitch

Returns an int of the total number of times a batter was hit by an opponent's pitch.

# times\_struck\_out

Returns an int of the total number of times the team struck out.

#### total bases

Returns an int of the total number of bases a team has gained during the season.

# total\_runs

Returns an int of the total number of runs scored during the season.

#### triples

Returns an int of the total number of tripes hit by the team.

#### whip

Returns a float of the average number of walks plus hits by the opponent per inning.

#### wild\_pitches

Returns an int of the total number of wild pitches thrown by a team during a season.

# win\_percentage

Returns a float of the number of wins divided by the number of games played during the season. Percentage ranges from 0-1.

# wins

Returns an int of the total number of games the team won during the season.

# wins\_last\_ten\_games

Returns an int of the number of wins in the last 10 games.

#### wins\_last\_thirty\_games

Returns an int of the number of wins in the last 30 games.

# wins\_last\_twenty\_games

Returns an int of the number of wins in the last 20 games.

# wins\_vs\_left\_handed\_pitchers

Returns an int of number of wins against left-handed pitchers.

#### wins\_vs\_right\_handed\_pitchers

Returns an int of the number of wins against right-handed pitchers.

# wins\_vs\_teams\_over\_500

Returns an int of the number of wins against teams over 500.

# wins\_vs\_teams\_under\_500

Returns an int of the number of wins against teams under 500.

# class sportsreference.mlb.teams.Teams(year=None)

Bases: object

A list of all MLB teams and their stats in a given year.

Finds and retrieves a list of all MLB teams from www.baseball-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters year** (string (optional)) – The requested year to pull stats from.

## dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

```
sportsreference.mlb.teams.mlb_int_property_decorator(func)
```

# 1.6.1.2 NBA Package

The NBA package offers multiple modules which can be use to retrieve information and statistics for the National Basketball Association, such as team names, season stats, game schedules, and boxscore metrics.

#### **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of points scored to the number of free throws made, to the assist rate and much more. The Boxscore can be easily queried by passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.nba.boxscore import Boxscore

game_data = Boxscore('201806080CLE')
print(game_data.away_points) # Prints 108
print(game_data.home_points) # Prints 85
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from datetime import datetime
from sportsreference.nba.boxscore import Boxscores

games_today = Boxscores(datetime.today())
print(games_today.games) # Prints a dictionary of all matchups for today
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from datetime import datetime
from sportsreference.nba.boxscore import Boxscores

# Pulls all games between and including January 1, 2018 and January 5, 2018
games = Boxscores(datetime(2018, 1, 1), datetime(2018, 1, 5))
# Prints a dictionary of all results from January 1, 2018 and January 5,
# 2018
print(games.games)
```

```
class sportsreference.nba.boxscore.Boxscore(uri)
    Bases: object
```

Detailed information about the final statistics for a game.

Stores all relevant metrics for a game such as the date, time, location, result, and more advanced metrics such as the effective field goal rate, the true shooting percentage, the game's pace, and much more.

**Parameters uri** (*string*) – The relative link to the boxscore HTML page, such as '201710310LAL'.

#### away\_assist\_percentage

Returns a float of the percentage of the away team's field goals that were assisted. Percentage ranges from 0-100.

#### away\_assists

Returns an int of the total number of assists by the away team.

#### away\_block\_percentage

Returns a float of the percentage of 2-point field goals that were blocked by the away team. Percentage ranges from 0-100.

# away\_blocks

Returns an int of the total number of blocks by the away team.

#### away\_defensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

#### away defensive rebound percentage

Returns a float of the percentage of available defensive rebounds the away team grabbed. Percentage ranges from 0-100.

#### away defensive rebounds

Returns an int of the total number of defensive rebounds by the away team.

# away\_effective\_field\_goal\_percentage

Returns a float of the away team's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

# away\_field\_goal\_attempts

Returns an int of the total number of field goal attempts by the away team.

# away\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the away team. Percentage ranges from 0-1.

# away\_field\_goals

Returns an int of the total number of field goals made by the away team.

# away\_free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt by the away team.

#### away\_free\_throw\_attempts

Returns an int of the total number of free throw attempts by the away team.

# away\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the away team.

#### away\_free\_throws

Returns an int of the total number of free throws made by the away team.

# away\_losses

Returns an int of the number of games the team has lost after the conclusion of the game.

# away\_minutes\_played

Returns an int of the total number of minutes the team played during the game.

# away\_offensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

# away\_offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds the away team grabbed. Percentage ranges from 0-100.

# away\_offensive\_rebounds

Returns an int of the total number of offensive rebounds by the away team.

#### away\_personal\_fouls

Returns an int of the total number of personal fouls by the away team.

#### away\_points

Returns an int of the number of points the away team scored.

#### away\_steal\_percentage

Returns a float of the percentage of possessions that ended in a steal by the away team. Percentage ranges from 0-100.

# away\_steals

Returns an int of the total number of steals by the away team.

#### away\_three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range by the away team. Percentage ranges from 0-1.

# away\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the away team.

# away\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the away team. Percentage ranges from 0-1.

# away\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the away team.

# away\_total\_rebound\_percentage

Returns a float of the percentage of available rebounds the away team grabbed. Percentage ranges from 0-100.

# away\_total\_rebounds

Returns an int of the total number of rebounds by the away team.

# away\_true\_shooting\_percentage

Returns a float of the away team's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

# away\_turnover\_percentage

Returns a float of the number of times the away team turned the ball over per 100 possessions.

# away\_turnovers

Returns an int of the total number of turnovers by the away team.

# away\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts by the away team.

# away\_two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts by the away team. Percentage ranges from 0-1.

#### away\_two\_point\_field\_goals

Returns an int of the total number of two point field goals made by the away team.

# away\_wins

Returns an int of the number of games the team has won after the conclusion of the game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as '201710310LAL'.

#### date

Returns a string of the date the game took place.

# home\_assist\_percentage

Returns a float of the percentage of the home team's field goals that were assisted. Percentage ranges from 0-100.

#### home\_assists

Returns an int of the total number of assists by the home team.

## home\_block\_percentage

Returns a float of the percentage of 2-point field goals that were blocked by the home team. Percentage ranges from 0-100.

#### home blocks

Returns an int of the total number of blocks by the home team.

#### home\_defensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

# home\_defensive\_rebound\_percentage

Returns a float of the percentage of available defensive rebounds the home team grabbed. Percentage ranges from 0-100.

# home\_defensive\_rebounds

Returns an int of the total number of defensive rebounds by the home team.

# home\_effective\_field\_goal\_percentage

Returns a float of the home team's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

# home\_field\_goal\_attempts

Returns an int of the total number of field goal attempts by the home team.

# home\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the home team. Percentage ranges from 0-1.

#### home\_field\_goals

Returns an int of the total number of field goals made by the home team.

# home\_free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt by the home team.

# home\_free\_throw\_attempts

Returns an int of the total number of free throw attempts by the home team.

# home\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the home team.

# home free throws

Returns an int of the total number of free throws made by the home team.

#### home losses

Returns an int of the number of games the home team lost after the conclusion of the game.

# home\_minutes\_played

Returns an int of the total number of minutes the team played during the game.

#### home\_offensive\_rating

Returns a float of the average number of points scored per 100 possessions by the home team.

#### home offensive rebound percentage

Returns a float of the percentage of available offensive rebounds the home team grabbed. Percentage ranges from 0-100.

# home\_offensive\_rebounds

Returns an int of the total number of offensive rebounds by the home team.

#### home\_personal\_fouls

Returns an int of the total number of personal fouls by the home team.

# home\_points

Returns an int of the number of points the home team scored.

#### home\_steal\_percentage

Returns a float of the percentage of possessions that ended in a steal by the home team. Percentage ranges from 0-100.

#### home\_steals

Returns an int of the total number of steals by the home team.

# home\_three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range by the home team. Percentage ranges from 0-1.

# home\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the home team.

# home\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the home team. Percentage ranges from 0-1.

# home\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the home team.

# home\_total\_rebound\_percentage

Returns a float of the percentage of available rebounds the home team grabbed. Percentage ranges from 0-100.

# home total rebounds

Returns an int of the total number of rebounds by the home team.

# home\_true\_shooting\_percentage

Returns a float of the home team's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

# home\_turnover\_percentage

Returns a float of the number of times the home team turned the ball over per 100 possessions.

# home\_turnovers

Returns an int of the total number of turnovers by the home team.

# home\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts by the home team.

# home\_two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts by the home team. Percentage ranges from 0-1.

# home\_two\_point\_field\_goals

Returns an int of the total number of two point field goals made by the home team.

#### home wins

Returns an int of the number of games the home team won after the conclusion of the game.

#### location

Returns a string of the name of the venue where the game was played.

#### losing\_abbr

Returns a string of the losing team's abbreviation, such as 'PHO' for the Phoenix Suns.

# losing\_name

Returns a string of the losing team's name, such as 'Phoenix Suns'.

# pace

Returns a float of the game's overall pace, measured by the number of possessions per 40 minutes.

#### winner

Returns a string constant indicating whether the home or away team won.

#### winning abbr

Returns a string of the winning team's abbreviation, such as 'DET' for the Detroit Pistons.

# winning name

Returns a string of the winning team's name, such as 'Detroit Pistons'.

```
class sportsreference.nba.boxscore.Boxscores(date, end_date=None)
    Bases: object
```

Search for NBA games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

# **Parameters**

- date (datetime object) The date to search for any matches. The month, day, and year are required for the search, but time is not factored into the search.
- end\_date (datetime object (optional)) Optionally specify an end date to iterate until. All boxscores starting from the date specified in the 'date' parameter up to and including the boxscores specified in the 'end\_date' parameter will be pulled. If left empty, or if 'end\_date' is prior to 'date', only the games from the day specified in the 'date' parameter will be saved.

# games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

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```
Rockets' (`str`),
    'away_abbr': Abbreviation for the away team, such as 'HOU'
                 (`str`),
    'boxscore': String representing the boxscore URI, such as
                '201702040PHO' (`str`),
    'winning_name': Full name of the winning team, such as
                    'Houston Rockets' (`str`),
    'winning_abbr': Abbreviation for the winning team, such as
                    'HOU' (`str`),
    'losing_name': Full name of the losing team, such as
                   'Phoenix Suns' (`str`),
    'losing_abbr': Abbreviation for the losing team, such as
                   'PHO' (`str`),
    'home_score': Integer score for the home team (`int`),
    'away_score': Integer score for the away team (`int`)
{ ... },
```

If no games were played on 'date', the list for ['date'] will be empty.

#### Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career points totals to single-season stats and player height, weight, and nationality. The following is an example on collecting career information for James Harden:

```
from sportsreference.nba.roster import Player

james_harden = Player('hardeja01')
print(james_harden.name) # Prints 'James Harden'
print(james_harden.points) # Prints Harden's career points total
# Prints a Pandas DataFrame of all relevant Harden stats per season
print(james_harden.dataframe)
print(james_harden.salary) # Prints Harden's career earnings
print(james_harden.contract) # Prints Harden's contract by yearly wages
```

By default, the player's career stats are returned whenever a property is called. To get stats for a specific season, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.nba.roster import Player

james_harden = Player('hardeja01') # Currently pulling career stats
print(james_harden.points) # Prints Harden's CAREER points total
# Prints Harden's points total only for the 2017-18 season.
print(james_harden('2017-18').points)
# Prints the number of games Harden played in the 2017-18 season.
print(james_harden.games_played)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.nba.roster import Player

james_harden = Player('hardeja01') # Currently pulling career stats
# Prints Harden's points total only for the 2017-18 season.
print(james_harden('2017-18').points)
print(james_harden('Career').points) # Prints Harden's career points total
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.nba.roster import Roster

houston = Roster('HOU')
for player in houston.players:
    # Prints the name of all players who played for Houston in the most
    # recent season.
    print(player.name)
```

```
class sportsreference.nba.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'hardeja01' for James Harden, capture all relevant stats and information like name, nationality, height/weight, career three-pointers, last season's offensive rebounds, salary, contract amount, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on basketball-reference.com.

**Parameters player\_id** (string) – A player's ID according to basketball-reference.com, such as 'hardeja01' for James Harden. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.html' in the URL. In general, the ID is in the format 'LLLLLFFNN' where 'LLLLL' are the first 5 letters in the player's last name, 'FF', are the first 2 letters in the player's first name, and 'NN' is a number starting at '01' for the first time that player ID has been used and increments by 1 for every successive player.

# and\_ones

Returns an int of the total number of times the player was fouled in the act of shooting and made the basket.

# assist\_percentage

Returns a float of the percentage of field goals the player assisted while on the floor. Percentage ranges from 0-100.

#### assists

Returns an int of the total number of assists the player tallied during the season.

# birth\_date

Returns a datetime object of the day and year the player was born.

# block\_percentage

Returns a float of the percentage of opposing two-point field goal attempts that were blocked by the player while on the floor. Percentage ranges from 0-100.

# blocking\_fouls

Returns an int of the total number of blocking fouls the player committed.

#### blocks

Returns an int of the total number of shots the player blocked during the season.

## box\_plus\_minus

Returns a float of the total number of points per 100 possessions the player contributed in comparison to an average player in the league.

### center percentage

Returns an int of the percentage of time the player spent as a center. Percentage ranges from 0-100 and is rounded to the nearest whole number.

#### contract

Returns a dictionary of the player's contract details where the key is a string of the season, such as '2018-19', and the value is a string of the salary, such as '\$40,000,000'.

#### dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

### defensive\_box\_plus\_minus

Returns a float of the number of defensive points per 100 possessions the player contributed in comparison to an average player in the league.

## defensive\_rebound\_percentage

Returns a float of the percentage of available defensive rebounds the player grabbed. Percentage ranges from 0-100.

### defensive rebounds

Returns an int of the total number of defensive rebounds the player grabbed during the season.

## defensive\_win\_shares

Returns a float of the number of wins the player contributed to the team as a result of his defensive plays.

#### dunks

Returns an int of the total number of dunks the player made during the season.

### effective\_field\_goal\_percentage

Returns a float of the player's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

## field\_goal\_attempts

Returns an int of the total number of field goals the player attempted during the season.

# ${\tt field\_goal\_perc\_sixteen\_foot\_plus\_two\_pointers}$

Returns a float of the player's field goal percentage for shots that are greater than sixteen feet from the basket, but in front of or on the three point arc. Percentage ranges from 0-1.

## field\_goal\_perc\_ten\_to\_sixteen\_feet

Returns a float of the player's field goal percentage for shots between ten and sixteen feet from the basket. Percentage ranges from 0-1.

### field\_goal\_perc\_three\_to\_ten\_feet

Returns a float of the player's field goal percentage for shots between three and ten feet from the basket. Percentage ranges from 0-1.

# field\_goal\_perc\_zero\_to\_three\_feet

Returns a float of the player's field goal percentage for shots between zero and three feet from the basket. Percentage ranges from 0-1.

## field\_goal\_percentage

Returns a float of the player's field goal percentage during the season. Percentage ranges from 0-1.

#### field goals

Returns an int of the total number of field goals the player scored.

## free\_throw\_attempt\_rate

Returns a float of the number of free throw attempts per field goal attempt.

#### free\_throw\_attempts

Returns an int of the total number of free throws the player attempted during the season.

#### free throw percentage

Returns a float of the player's free throw percentage during the season. Percentage ranges from 0-1.

#### free throws

Returns an int of the total number of free throws the player made during the season.

### games\_played

Returns an int of the number of games the player participated in.

### games\_started

Returns an int of the number of games the player started.

### half court heaves

Returns an int of the number of shots the player took from beyond mid-court.

## half\_court\_heaves\_made

Returns an int of the number of shots the player made from beyond mid-court.

#### height

Returns a string of the player's height in the format "feet-inches".

### lost ball turnovers

Returns an int of the total number of turnovers the player committed due to losing the ball.

### minutes\_played

Returns an int of the total number of minutes the player played.

## name

Returns a string of the players name, such as 'James Harden'.

### nationality

Returns a string constant denoting which country the player originates from.

### net\_plus\_minus

Returns a float of the net number of points the player contributes to the team per 100 possessions regardless of being on the floor or not.

## offensive\_box\_plus\_minus

Returns a float of the number of offensive points per 100 possessions the player contributed in comparison to an average player in the league.

### offensive\_fouls

Returns an int of the total number of offensive fouls the player committed.

# ${\tt offensive\_rebound\_percentage}$

Returns a float of the percentage of available offensive rebounds the player grabbed. Percentage ranges from 0-100.

### offensive\_rebounds

Returns an int of the total number of offensive rebounds the player grabbed during the season.

### offensive\_win\_shares

Returns a float of the number of wins the player contributed to the team as a result of his offensive plays.

#### on\_court\_plus\_minus

Returns a float of the number of points the player contributes to the team while on the court per 100 possessions.

### other turnovers

Returns an int of the total number of all other non-passing/dribbling turnovers the player committed.

### passing\_turnovers

Returns an int of the total number of turnovers the player committed due to a bad pass.

### percentage\_field\_goals\_as\_dunks

Returns a float of the percentage of the player's shot attempts that are dunks. Percentage ranges from 0-1.

### percentage\_of\_three\_pointers\_from\_corner

Returns a float of the percentage of 3-point shots the player attempted from the corner. Percentage ranges from 0-1.

## percentage\_shots\_three\_pointers

Returns a float of the percentage of shots the player takes from beyond the three point arc. Percentage ranges from 0-1.

### percentage\_shots\_two\_pointers

Returns a float of the percentage of shots the player takes that are 2-pointers. Percentage ranges from 0-1.

#### percentage\_sixteen\_foot\_plus\_two\_pointers

Returns a float of the percentage of shots the player takes that are greater than sixteen feet from the basket, but in front of or on the three point arc. Percentage ranges from 0-1.

## percentage\_ten\_to\_sixteen\_footers

Returns a float of the percentage of shots the player takes from ten to sixteen feet from the basket. Percentage ranges from 0-1.

## percentage\_three\_to\_ten\_footers

Returns a float of the percentage of shots the player takes from three to ten feet from the basket. Percentage ranges from 0-1.

## percentage\_zero\_to\_three\_footers

Returns a float of the percentage of shots the player takes from zero to three feet from the basket. Percentage ranges from 0-1.

## personal\_fouls

Returns an int of the total number of personal fouls the player committed during the season.

### player\_efficiency\_rating

Returns a float of the player's efficiency rating which represents the player's relative production level. An average player in the league has an efficiency rating of 15.

## player\_id

Returns a string of the player's ID on sports-reference, such as 'hardeja01' for James Harden.

# point\_guard\_percentage

Returns an int of the percentage of time the player spent as a point guard. Percentage ranges from 0-100 and is rounded to the nearest whole number.

### points

Returns an int of the total number of points the player scored during the season.

# points\_generated\_by\_assists

Returns an int of the total number of points the player generated as a result of him assisting the shooter.

#### position

Returns a string constant of the player's primary position.

## power\_forward\_percentage

Returns an int of the percentage of time the player spent as a power forward. Percentage ranges from 0-100 and is rounded to the nearest whole number.

#### salary

Returns an int of the player's annual salary rounded down.

#### season

Returns a string of the season in the format 'YYYY-YY', such as '2017-18'. If no season was requested, the career stats will be returned for the player and the season will default to 'Career'.

### shooting\_distance

Returns a float of the average distance the player takes a shot from in feet.

### shooting\_fouls

Returns an int of the total number of shooting fouls the player committed.

## shooting\_fouls\_drawn

Returns an int of the total number of shooting fouls the player drew during the season.

## shooting\_guard\_percentage

Returns an int of the percentage of time the player spent as a shooting guard. Percentage ranges from 0-100 and is rounded to the nearest whole number.

#### shots blocked

Returns an int of the total number of shots the player took that were blocked by an opposing player.

## small\_forward\_percentage

Returns an int of the percentage of time the player spent as a small forward. Percentage ranges from 0-100 and is rounded to the nearest whole number.

# steal\_percentage

Returns a float of the percentage of defensive possessions that ended with the player stealing the ball while on the floor. Percentage ranges from 0-100.

#### steals

Returns an int of the total number of steals the player tallied during the season.

# take\_fouls

Returns an int of the total number of take fouls the player committed by taking a foul before the offensive player has a chance to make a shooting motion.

### team abbreviation

Returns a string of the abbrevation for the team the player plays for, such as 'HOU' for James Harden.

### three\_point\_attempt\_rate

Returns a float of the percentage of field goals that are shot from beyond the 3-point arc. Percentage ranges from 0-1.

# three\_point\_attempts

Returns an int of the total number of three point field goals the player attempted during the season.

#### three\_point\_percentage

Returns a float of the player's three point field goal percentage during the season. Percentage ranges from 0-1.

## three\_point\_shot\_percentage\_from\_corner

Returns a float of the percentage of 3-pointers from the corner that went in. Percentage ranges from 0-1.

#### three pointers

Returns an int of the total number of three point field goals the player made.

## three\_pointers\_assisted\_percentage

Returns a float of the percentage of 3-point field goals by the player that are assisted. Percentage ranges from 0-1.

### total\_rebound\_percentage

Returns a float of the percentage of available rebounds the player grabbed, both offensive and defensive. Percentage ranges from 0-100.

### total\_rebounds

Returns an int of the total number of offensive and defensive rebounds the player grabbed during the season.

### true\_shooting\_percentage

Returns a float of the player's true shooting percentage which takes into account two and three pointers as well as free throws. Percentage ranges from 0-1.

### turnover\_percentage

Returns a float of the average number of turnovers per 100 possessions by the player.

#### turnovers

Returns an int of the total number of times the player turned the ball over during the season for any reason.

#### two\_point\_attempts

Returns an int of the total number of two point field goals the player attempted during the season.

## two\_point\_percentage

Returns a float of the player's two point field goal percentage during the season. Percentage ranges from 0-1.

### two pointers

Returns an int of the total number of two point field goals the player made.

## two\_pointers\_assisted\_percentage

Returns a float of the percentage of 2-point field goals by the player that are assisted. Percentage ranges from 0-1.

## usage\_percentage

Returns a float of the percentage of plays the player is involved in while on the floor. Percentage ranges from 0-100.

### value over replacement player

Returns a float of the total number of points per 100 team possessions the player contributed compared to a replacement-level player (who has an average score of -2.0). This value is prorated for an 82-game season.

## weight

Returns an int of the player's weight in pounds.

### win\_shares

Returns a float of the number of wins the player contributed to the team as a result of his offensive and defensive plays.

## win\_shares\_per\_48\_minutes

Returns a float of the number of wins the player contributed to the team per 48 minutes of playtime. An average player has a contribution of 0.100.

# class sportsreference.nba.roster.Roster(team, year=None)

Bases: object

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the players statistics and information.

#### **Parameters**

- team (string) The team's 3-letter abbreviation, such as 'HOU' for the Houston Rockets.
- year (string (optional)) The 4-digit year to pull the roster from, such as '2018'. If left blank, defaults to the most recent season.

### players

Returns a list of player instances for each player on the requested team's roster.

### **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.nba.schedule import Schedule
houston_schedule = Schedule('HOU')
for game in houston_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
    # Creates an instance of the Boxscore class for the game.
    boxscore = game.boxscore
```

```
class sportsreference.nba.schedule.Game(game_data)
    Bases: object
```

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

**Parameters** game\_data (string) - The row containing the specified game information.

#### assists

Returns an int of the total number of assists by the team.

### blocks

Returns an int of the total number of blocks by the team.

#### boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

#### boxscore index

Returns a string of the URI for a boxscore which can be used to access or index a game.

## dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

#### dataframe extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the date the game took place at, such as 'Wed, Oct 18, 2017'.

#### datetime

Returns a datetime object to indicate the month, day, and year the game took place.

### field\_goal\_attempts

Returns an int of the total number of field goal attempts by the team.

#### field goal percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the team. Percentage ranges from 0-1.

## field\_goals

Returns an int of the total number of field goals made by the team.

## free\_throw\_attempts

Returns an int of the total number of free throw attempts by the team.

#### free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the team.

### free throws

Returns an int of the total number of free throws made by the team.

#### game

Returns an int to indicate which game in the season was requested. The first game of the season returns 1.

#### location

Returns a string constant to indicate whether the game was played in the team's home arena or on the road.

### offensive rebounds

Returns an int of the total number of offensive rebounds by the team.

### opp\_assists

Returns an int of the total number of assists by the opponent.

### opp\_blocks

Returns an int of the total number of blocks by the opponent.

## opp\_field\_goal\_attempts

Returns an int of the total number of field goal attempts by the opponent.

### opp\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the opponent. Percentage ranges from 0-1.

# opp\_field\_goals

Returns an int of the total number of field goals made by the opponent.

### opp\_free\_throw\_attempts

Returns an int of the total number of free throw attempts by the opponent.

# opp\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the opponent.

## opp\_free\_throws

Returns an int of the total number of free throws made by the opponent.

### opp\_offensive\_rebounds

Returns an int of the total number of offensive rebounds by the opponent.

## opp\_personal\_fouls

Returns an int of the total number of personal fouls by the opponent.

### opp\_steals

Returns an int of the total number of steals by the opponent.

### opp\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the opponent.

# opp\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the opponent. Percentage ranges from 0-1.

## opp\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the opponent.

### opp\_total\_rebounds

Returns an int of the total number of rebounds by the opponent.

#### opp\_turnovers

Returns an int of the total number of turnovers by the opponent.

#### opponent abbr

Returns a string of the opponent's 3-letter abbreviation, such as 'CHI' for the Chicago Bulls.

### personal fouls

Returns an int of the total number of personal fouls by the team.

#### points\_allowed

Returns an int of the number of points the team allowed during the game.

### points\_scored

Returns an int of the number of points the team scored during the game.

#### result

Returns a string constant to indicate whether the team won or lost the game.

#### steals

Returns an int of the total number of steals by the team.

# three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the team.

# three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the team. Percentage ranges from 0-1.

### three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the team.

## total\_rebounds

Returns an int of the total number of rebounds by the team.

#### turnovers

Returns an int of the total number of turnovers by the team.

## **class** sportsreference.nba.schedule.**Schedule**(abbreviation, year=None)

Bases: object

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

#### **Parameters**

- abbreviation (string) A team's short name, such as 'PHO' for the Phoenix Suns.
- year (string (optional)) The requested year to pull stats from.

#### dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

### dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

#### **Teams**

The Teams module exposes information for all NBA teams including the team name and abbreviation, the number of games they won during the season, the total number of shots they've blocked, and much more.

```
from sportsreference.nba.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    print(team.blocks) # Prints the team's total blocked shots
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.nba.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.nba.teams import Teams

teams = Teams()
for team in teams:
    # Creates an instance of the roster class for each player on the team.
    roster = team.roster
    for player in roster.players:
        print(player.name) # Prints the name of each player on the team.
```

```
class sportsreference.nba.teams.Team(team_data, rank, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as rank, name, and abbreviation, and sets them as properties which can be directly read from for easy reference.

#### **Parameters**

- **team\_data** (string) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- rank (int) A team's position in the league based on the number of points they obtained during the season.
- year (string (optional)) The requested year to pull stats from.

#### abbreviation

Returns a string of the team's abbreviation, such as 'DET' for the Detroit Pistons.

### assists

Returns an int of the total number of field goals that were assisted.

#### blocks

Returns an int of the total number of times the team blocked an opponent's shot.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'DET'.

#### defensive rebounds

Returns an int of the total number of defensive rebounds the team has grabbed.

# field\_goal\_attempts

Returns an int of the total number of field goals the team has attempted during the season.

## field\_goal\_percentage

Returns a float of the percentage of field goals made divided by the number of attempts. Percentage ranges from 0-1.

### field\_goals

Returns an int of the total number of field goals the team has made during the season.

#### free\_throw\_attempts

Returns an int of the total number of free throw attempts during the season.

## free throw percentage

Returns a float of the percentage of free throws made divided by the attempts. Percentage ranges from 0-1.

#### free throws

Returns an int of the total number of free throws made during the season.

### games\_played

Returns an int of the total number of games the team has played during the season.

# minutes\_played

Returns an int of the total number of minutes played by all players on the team during the season.

#### name

Returns a string of the team's full name, such as 'Detroit Pistons'.

### offensive\_rebounds

Returns an int of the total number of offensive rebounds the team has grabbed.

## opp\_assists

Returns an int of the total number of field goals that were assisted by the opponent.

# opp\_blocks

Returns an int of the total number of times the opponent blocked the team's shot.

## opp\_defensive\_rebounds

Returns an int of the total number of defensive rebounds the opponent grabbed.

### opp\_field\_goal\_attempts

Returns an int of the total number of field goals the opponents attempted during the season.

### opp field goal percentage

Returns a float of the percentage of field goals made divided by the number of attempts by the opponent. Percentage ranges from 0-1.

#### opp\_field\_goals

Returns an int of the total number of field goals the opponents made during the season.

### opp\_free\_throw\_attempts

Returns an int of the total number of free throw attempts during the season by the opponent.

#### opp\_free\_throw\_percentage

Returns a float of the percentage of free throws made divided by the attempts by the opponent. Percentage ranges from 0-1.

## opp\_free\_throws

Returns an int of the total number of free throws made during the season by the opponent.

#### opp offensive rebounds

Returns an int of the total number of offensive rebounds the opponent grabbed.

#### opp personal fouls

Returns an int of the total number of times the opponent fouled the team.

### opp\_points

Returns an int of the total number of points the team has been scored on during the season.

## opp\_steals

Returns an int of the total number of times the opponent stole the ball from the team.

### opp\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goals the opponent attempted during the season.

### opp\_three\_point\_field\_goal\_percentage

Returns a float of the percentage of three point field goals made divided by the number of attempts by the opponent. Percentage ranges from 0-1.

## opp\_three\_point\_field\_goals

Returns an int of the total number of three point field goals the opponent made during the season.

#### opp total rebounds

Returns an int of the total number of rebounds the opponent grabbed.

### opp\_turnovers

Returns an int of the total number of times the opponent turned the ball over.

### opp\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goals the opponent attempted during the season.

## opp\_two\_point\_field\_goal\_percentage

Returns a float of the percentage of two point field goals made divided by the number of attempts by the opponent. Percentage ranges from 0-1.

# opp\_two\_point\_field\_goals

Returns an int of the total number of two point field goals the opponent made during the season.

#### personal fouls

Returns an int of the total number of times the team has fouled an opponent.

#### points

Returns an int of the total number of points the team has scored during the season.

#### rank

Returns an int of the team's rank based on the number of points they score per game.

#### roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

#### schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

#### steals

Returns an int of the total number of times the team stole the ball from the opponent.

## three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goals the team has attempted during the season.

### three\_point\_field\_goal\_percentage

Returns a float of the percentage of three point field goals made divided by the number of attempts. Percentage ranges from 0-1.

### three\_point\_field\_goals

Returns an int of the total number of three point field goals the team has made during the season.

#### total rebounds

Returns an int of the total number of rebounds the team has grabbed.

## turnovers

Returns an int of the total number of times the team has turned the ball over.

# two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goals the team has attempted during the season.

### two\_point\_field\_goal\_percentage

Returns a float of the percentage of two point field goals made divided by the number of attempts. Percentage ranges from 0-1.

## two\_point\_field\_goals

Returns an int of the total number of two point field goals the team has made during the season.

## class sportsreference.nba.teams.Teams(year=None)

Bases: object

A list of all NBA teams and their stats in a given year.

Finds and retrieves a list of all NBA teams from www.basketball-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters** year (string (optional)) - The requested year to pull stats from.

#### dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

### 1.6.1.3 NCAAB Package

The NCAAB package offers multiple modules which can be used to retrieve information and statistics for Men's Division I College Basketball, such as team names, season stats, game schedules, and boxscore metrics.

## **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of points scored to the number of blocked shots, to the assist percentage and much more. The Boxscore can be easily queried by passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.ncaab.boxscore import Boxscore

game_data = Boxscore('2018-04-02-21-villanova')
print(game_data.home_points) # Prints 79
print(game_data.away_points) # Prints 62
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from datetime import datetime
from sportsreference.ncaab.boxscore import Boxscores

games_today = Boxscores(datetime.today())
print(games_today.games) # Prints a dictionary of all matchups for today
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from datetime import datetime
from sportsreference.ncaab.boxscore import Boxscores

# Pulls all games between and including November 11, 2017 and November 12,
# 2017
games = Boxscores(datetime(2017, 11, 11), datetime(2017, 11, 12))
# Prints a dictionary of all results from November 11, 2017 and November 12,
# 2017
print(games.games)
```

```
class sportsreference.ncaab.boxscore.Boxscore(uri)
    Bases: object
```

Detailed information about the final statistics for a game.

Stores all relevant metrics for a game such as the date, time, location, result, and more advanced metrics such as the effective field goal rate, the true shooting percentage, the game's pace, and much more.

**Parameters uri** (string) – The relative link to the boxscore HTML page, such as '2017-11-10-21-kansas'.

## away\_assist\_percentage

Returns a float of the percentage of the away team's field goals that were assisted. Percentage ranges from 0-100.

#### away assists

Returns an int of the total number of assists by the away team.

## away\_block\_percentage

Returns a float of the percentage of 2-point field goals that were blocked by the away team. Percentage ranges from 0-100.

#### away blocks

Returns an int of the total number of blocks by the away team.

## away\_defensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

#### away\_defensive\_rebound\_percentage

Returns a float of the percentage of available defensive rebounds the away team grabbed. Percentage ranges from 0-100.

### away\_defensive\_rebounds

Returns an int of the total number of defensive rebounds by the away team.

## away\_effective\_field\_goal\_percentage

Returns a float of the away team's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

### away\_field\_goal\_attempts

Returns an int of the total number of field goal attempts by the away team.

### away\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the away team. Percentage ranges from 0-1.

### away\_field\_goals

Returns an int of the total number of field goals made by the away team.

# away\_free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt by the away team.

### away\_free\_throw\_attempts

Returns an int of the total number of free throw attempts by the away team.

# away\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the away team.

## away\_free\_throws

Returns an int of the total number of free throws made by the away team.

#### away losses

Returns an int of the number of games the team has lost after the conclusion of the game.

# away\_minutes\_played

Returns an int of the total number of minutes the team played during the game.

# away\_offensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

#### away\_offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds the away team grabbed. Percentage ranges from 0-100.

## ${\tt away\_offensive\_rebounds}$

Returns an int of the total number of offensive rebounds by the away team.

#### away\_personal\_fouls

Returns an int of the total number of personal fouls by the away team.

## away\_points

Returns an int of the number of points the away team scored.

### away\_ranking

Returns an int of the away team's ranking during the week, or None if the team wasn't ranked.

#### away steal percentage

Returns a float of the percentage of possessions that ended in a steal by the away team. Percentage ranges from 0-100.

#### away\_steals

Returns an int of the total number of steals by the away team.

# away\_three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range by the away team. Percentage ranges from 0-1.

## away\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the away team.

# away\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the away team. Percentage ranges from 0-1.

### away\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the away team.

## away\_total\_rebound\_percentage

Returns a float of the percentage of available rebounds the away team grabbed. Percentage ranges from 0-100.

## away\_total\_rebounds

Returns an int of the total number of rebounds by the away team.

## away\_true\_shooting\_percentage

Returns a float of the away team's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

# away\_turnover\_percentage

Returns a float of the number of times the away team turned the ball over per 100 possessions.

## away\_turnovers

Returns an int of the total number of turnovers by the away team.

### away\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts by the away team.

# away\_two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts by the away team. Percentage ranges from 0-1.

### away\_two\_point\_field\_goals

Returns an int of the total number of two point field goals made by the away team.

## away\_win\_percentage

Returns a float of the percentage of games the away team has won after the conclusion of the game. Percentage ranges from 0-1.

## away\_wins

Returns an int of the number of games the team has won after the conclusion of the game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as '2017-11-10-21-kansas'.

#### date

Returns a string of the date the game took place.

#### home\_assist\_percentage

Returns a float of the percentage of the home team's field goals that were assisted. Percentage ranges from 0-100.

#### home assists

Returns an int of the total number of assists by the home team.

#### home\_block\_percentage

Returns a float of the percentage of 2-point field goals that were blocked by the home team. Percentage ranges from 0-100.

## home\_blocks

Returns an int of the total number of blocks by the home team.

# home\_defensive\_rating

Returns a float of the average number of points scored per 100 possessions by the away team.

## home\_defensive\_rebound\_percentage

Returns a float of the percentage of available defensive rebounds the home team grabbed. Percentage ranges from 0-100.

### home\_defensive\_rebounds

Returns an int of the total number of defensive rebounds by the home team.

## home\_effective\_field\_goal\_percentage

Returns a float of the home team's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

## home\_field\_goal\_attempts

Returns an int of the total number of field goal attempts by the home team.

## home\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by the home team. Percentage ranges from 0-1.

## home\_field\_goals

Returns an int of the total number of field goals made by the home team.

## home\_free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt by the home team.

#### home\_free\_throw\_attempts

Returns an int of the total number of free throw attempts by the home team.

# home\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts by the home team.

#### home\_free\_throws

Returns an int of the total number of free throws made by the home team.

### home\_losses

Returns an int of the number of games the home team lost after the conclusion of the game.

## home\_minutes\_played

Returns an int of the total number of minutes the team played during the game.

## home\_offensive\_rating

Returns a float of the average number of points scored per 100 possessions by the home team.

## home\_offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds the home team grabbed. Percentage ranges from 0-100.

### home offensive rebounds

Returns an int of the total number of offensive rebounds by the home team.

## home\_personal\_fouls

Returns an int of the total number of personal fouls by the home team.

#### home points

Returns an int of the number of points the home team scored.

#### home ranking

Returns an int of the home team's ranking during the week, or None if they were not ranked.

### home\_steal\_percentage

Returns a float of the percentage of possessions that ended in a steal by the home team. Percentage ranges from 0-100.

#### home steals

Returns an int of the total number of steals by the home team.

### home\_three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range by the home team. Percentage ranges from 0-1.

## home\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts by the home team.

## home\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by the home team. Percentage ranges from 0-1.

## home\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made by the home team.

### home\_total\_rebound\_percentage

Returns a float of the percentage of available rebounds the home team grabbed. Percentage ranges from 0-100.

### home total rebounds

Returns an int of the total number of rebounds by the home team.

### home\_true\_shooting\_percentage

Returns a float of the home team's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

# home\_turnover\_percentage

Returns a float of the number of times the home team turned the ball over per 100 possessions.

#### home turnovers

Returns an int of the total number of turnovers by the home team.

## home\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts by the home team.

# home\_two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts by the home team. Percentage ranges from 0-1.

### home\_two\_point\_field\_goals

Returns an int of the total number of two point field goals made by the home team.

# home\_win\_percentage

Returns a float of the percentage of games the home team has won after the conclusion of the game. Percentage ranges from 0-1.

#### home wins

Returns an int of the number of games the home team won after the conclusion of the game.

### location

Returns a string of the name of the venue where the game was played.

#### losing\_abbr

Returns a string of the losing team's abbreviation, such as 'INDIANA' for the Indiana Hoosiers.

## losing\_name

Returns a string of the losing team's name, such as 'Indiana' Hoosiers'.

#### pace

Returns a float of the game's overall pace, measured by the number of possessions per 40 minutes.

#### winner

Returns a string constant indicating whether the home or away team won.

### winning abbr

Returns a string of the winning team's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.

### winning name

Returns a string of the winning team's name, such as 'Purdue Boilermakers'.

```
class sportsreference.ncaab.boxscore.Boxscores (date, end_date=None)
```

Bases: object

Search for NCAAB games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, a boolean value which indicates if the game is between two Division-I teams or not, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

## **Parameters**

- date (datetime object) The date to search for any matches. The month, day, and year are required for the search, but time is not factored into the search.
- end\_date (datetime object) Optionally specify an end date to iterate until. All boxscores starting from the date specified in the 'date' parameter up to and including the boxscores specified in the 'end\_date' parameter will be pulled. If left empty, or if 'end\_date' is prior to 'date', only the games from the day specified in the 'date' parameter will be saved.

# games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

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```
Hoosiers' (`str`),
    'away_abbr': Abbreviation for the away team, such as
                 'INDIANA' (`str`),
    'boxscore': String representing the boxscore URI, such as
                '2018-01-28-15-indiana' (`str`),
    'non_di': Boolean value which evaluates to True when at
              least one of the teams does not compete in NCAA
              Division-I basketball (`bool`),
    'top_25': Boolean value which evaluates to True when at
              least one of the teams is ranked in the AP Top 25
              polls (`bool`),
    'winning_name': Full name of the winning team, such as
                    'Purdue Boilermakers' (`str`),
    'winning_abbr': Abbreviation for the winning team, such as
                    'PURDUE' (`str`),
    'losing_name': Full name of the losing team, such as
                   'Indiana Hoosiers' (`str`),
    'losing_abbr': Abbreviation for the losing team, such as
                   'INDIANA' (`str`),
    'home_score': Integer score for the home team (`int`),
    'home_rank': Integer representing the home team's rank
                 (`int`),
    'away_score': Integer score for the away team (`int`),
    'away_rank': Integer representing the away team's rank
                 (`int`)
},
{ ... },
1
```

If no games were played on 'date', the list for ['date'] will be empty.

### Conferences

The Conference module allows conferences to be pulled for any season using the Conferences class. Accessing the class properties exposes various dictionaries containing the team and conference abbreviations as well as other information. To get a list of conference abbreviations for each team, query the team\_conference property.

```
from sportsreference.ncaab.conferences import Conferences

conferences = Conferences()
# Prints a dictionary of the team abbrevation as a key and conference
# abbreviation as the value.
print(conferences.team_conference)
```

The conferences property can also be queried to provide more details on the teams in every conference.

```
from sportsreference.ncaab.conferences import Conferences

conferences = Conferences()
# Prints a dictionary where each key is the conference abbreviation and
# each value is a dictionary containing the full conference name as well as
# another dictionary of all teams in the conference, including name and
```

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```
# abbreviation for each team.
print(conferences.conferences)
```

Bases: object

Find teams that participated in a particular conference.

Create a dictionary which includes the names and abbreviations for all teams that participated in a conference during a given year.

#### **Parameters**

- **conference\_abbreviation** (*string*) A string of the requested conference's abbreviation, such as 'big-12'.
- **year** (string (optional)) A string of the requested year to pull conference information from. Defaults to the most recent season.

#### teams

Returns a dictionary of team names and abbreviations where each key is a string of the team abbreviation and each value is a string of the full team name.

class sportsreference.ncaab.conferences.Conferences(year=None)
 Bases: object

Get all conferences and teams for a season.

Retrieve a list of all conferences and teams that participated in the conference for each team in the season. The included properties allow flexibility in queries to either get the conference abbreviation for a given team, or get more detailed information including all teams for each conference.

**Parameters year** (string (optional)) - A string of the requested year to pull conferences from. Defaults to the most recent season.

### conferences

Returns a dictionary of conference names and abbreviations where each key is a string of the abbreviation and each value is a dictionary containing the full conference name and another dictionary with individual team information. The overall dictionary is in the following structure:

# team\_conference

Returns a dictionary of conference abbreviations for each team where each key is a string of the team abbreviation and each value is a string of the conference abbreviation.

# **Rankings**

The Rankings module includes the Rankings class which can be used to easily query the NCAAB Men's Division-I Basketball rankings published by the Associated Press on a week-by-week basis. Different formats can be referenced, ranging from a lightweight dictionary of the most recent rankings containing only the team abbreviation and rank, to a much larger dictionary of all rankings for an entire season with results including full team name and abbreviation, current rank, week number, previous rank, and movement.

```
from sportsreference.ncaab.rankings import Rankings

rankings = Rankings()
# Prints a dictionary of just the team abbreviation and rank for the current
# week
print(rankings.current)
# Prints more detailed information including previous rank, full name, and
# movement for all teams in current week
print(rankings.current_extended)
# Prints detailed information for all teams for all weeks where rankings
# have been published for the requested season.
print(rankings.complete)
```

```
class sportsreference.ncaab.rankings.Rankings(year=None)
    Bases: object
```

Get all Associated Press (AP) rankings on a week-by-week basis.

Grab a list of the rankings published by the Associated Press to easily query the hierarchy of teams each week. The results expose the current and previous rankings as well as the movement for each team in the list.

**Parameters year** (string (optional)) - A string of the requested year to pull rankings from. Defaults to the most recent season.

### complete

Returns a dictionary where each key is a week number as an int and each value is a list of dictionaries containing the AP rankings for each week. Within each list is a dictionary of team information such as name, abbreviation, rank, and more. Note that the list might not necessarily be in the same order as the rankings.

The overall dictionary has the following structure:

```
week number, ie 19 (int): [
        'abbreviation': Team's abbreviation, such as 'PURDUE'
                        (str).
        'name': Team's full name, such as 'Purdue' (str),
        'rank': Team's rank for the current week (int),
        'week': Week number for the results, such as 19 (int),
        'date': Date the rankings were released, such as
                '2017-03-01'. Can also be 'Final' for the final
                rankings or 'Preseason' for preseason rankings
                (str),
        'previous': The team's previous rank, if applicable
                    (str),
        'change': The amount the team moved up or down the
                  rankings. Moves up the ladder have a positive
                  number while drops yield a negative number
                  and teams that didn't move have 0 (int)
```

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```
},
...

1,
...
}
```

### current

Returns a dictionary of the most recent rankings from the Associated Press where each key is a string of the team's abbreviation and each value is an int of the team's rank for the current week.

### current extended

Returns a list of dictionaries of the most recent AP rankings. The list is ordered in terms of the ranking so the #1 team will be in the first element and the #25 team will be the last element. Each dictionary has the following structure:

```
{
    'abbreviation': Team's abbreviation, such as 'PURDUE' (str),
    'name': Team's full name, such as 'Purdue' (str),
    'rank': Team's rank for the current week (int),
    'week': Week number for the results, such as 19 (int),
    'date': Date the rankings were released, such as '2017-03-01'.
        Can also be 'Final' for the final rankings or
        'Preseason' for preseason rankings (str),
    'previous': The team's previous rank, if applicable (str),
    'change': The amount the team moved up or down the rankings.
        Moves up the ladder have a positive number while
        drops yield a negative number and teams that didn't
        move have 0 (int)
}
```

## Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career points totals to single-season stats and player height and weight. The following is an example on collecting career information for Carsen Edwards.

```
from sportsreference.ncaab.roster import Player

carsen_edwards = Player('carsen-edwards-1')
print(carsen_edwards.name) # Prints 'Carsen Edwards'
print(carsen_edwards.points) # Prints Edwards' career points total
# Prints a Pandas DataFrame of all relevant stats per season for Edwards
print(carsen_edwards.dataframe)
```

By default, the player's career stats are returns whenever a property is called. To get stats for a specific season, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.ncaab.roster import Player

carsen_edwards = Player('carsen-edwards-1') # Currently pulling career stats
print(carsen_edwards.points) # Prints Edwards' CAREER points total
# Prints Edwards' points total only for the 2017-18 season.
print(carsen_edwards('2017-18').points)
# Prints the number of games Edwards played in the 2017-18 season.
print(carsen_edwards.games_played)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.ncaab.roster import Player

carsen_edwards = Player('carsen-edwards-1')  # Currently pulling career stats
# Prints Edwards' points total only for the 2017-18 season.
print(carsen_edwards('2017-18').points)
print(carsen_edwards('Career').points)  # Prints Edwards' career points total
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.ncaab.roster import Roster

purdue = Roster('PURDUE')
for player in purdue.players:
    # Prints the name of all players who played for Purdue in the most
    # recent season.
    print(player.name)
```

```
class sportsreference.ncaab.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'carsen-edwards-1' for Carsen Edwards, capture all relevant stats and information like name, height/weight, career three-pointers, last season's offensive rebounds, offensive points contributed, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on sports-reference.com.

**Parameters player\_id** (string) – A player's ID according to sports-reference.com, such as 'carsen-edwards-1' for Carsen Edwards. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.html' in the URL. In general, the ID is in the format 'first-last-N' where 'first' is the player's first name in lowercase, 'last' is the player's last name in lowercase, and 'N' is a number starting at '1' for the first time that player ID has been used and increments by 1 for every successive player.

# assist\_percentage

Returns a float of the percentage of field goals the player assisted while on the floor. Percentage ranges from 0-100.

#### assists

Returns an int of the total number of assists the player tallied during the season.

### block\_percentage

Returns a float of the percentage of opposing two-point field goal attempts that were blocked by the player while on the floor. Percentage ranges from 0-100.

## blocks

Returns an int of the total number of shots the player blocked during the season.

### box\_plus\_minus

Returns a float of the total number of points per 100 possessions the player contributed in comparison to an average player in the league.

#### conference

Returns a string of the abbreviation for the conference the team participated in for the requested season.

#### dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

#### defensive box plus minus

Returns a float of the number of defensive points per 100 possessions the player contributed in comparison to an average player in the league.

### defensive\_rebound\_percentage

Returns a float of the percentage of available defensive rebounds the player grabbed. Percentage ranges from 0-100.

#### defensive\_rebounds

Returns an int of the total number of defensive rebounds the player grabbed during the season.

### defensive\_win\_shares

Returns a float of the number of wins the player contributed to the team as a result of his defensive plays.

### effective\_field\_goal\_percentage

Returns a float of the player's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

#### field\_goal\_attempts

Returns an int of the total number of field goals the player attempted during the season.

# field\_goal\_percentage

Returns a float of the player's field goal percentage during the season. Percentage ranges from 0-1.

## field\_goals

Returns an int of the total number of field goals the player scored.

## free\_throw\_attempt\_rate

Returns a float of the number of free throw attempts per field goal attempt.

## free\_throw\_attempts

Returns an int of the total number of free throws the player attempted during the season.

### free\_throw\_percentage

Returns a float of the player's free throw percentage during the season. Percentage ranges from 0-1.

### free throws

Returns an int of the total number of free throws the player made during the season.

#### games played

Returns an int of the number of games the player participated in.

# games\_started

Returns an int of the number of games the player started.

### height

Returns a string of the player's height in the format "feet-inches".

#### minutes played

Returns an int of the total number of minutes the player played.

### name

Returns a string of the players name, such as 'Carsen Edwards'.

#### offensive box plus minus

Returns a float of the number of offensive points per 100 possessions the player contributed in comparison to an average player in the league.

## offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds the player grabbed. Percentage ranges from 0-100.

#### offensive rebounds

Returns an int of the total number of offensive rebounds the player grabbed during the season.

### offensive\_win\_shares

Returns a float of the number of wins the player contributed to the team as a result of his offensive plays.

### personal\_fouls

Returns an int of the total number of personal fouls the player committed during the season.

# player\_efficiency\_rating

Returns a float of the player's efficiency rating which represents the player's relative production level. An average player in the league has an efficiency rating of 15.

### player\_id

Returns a string of the player's ID on sports-reference, such as 'carsen-edwards-1' for Carsen Edwards.

#### points

Returns an int of the total number of points the player scored during the season.

### points\_produced

Returns an int of the number of offensive points the player produced.

#### position

Returns a string constant of the player's primary position.

## season

Returns a string of the season in the format 'YYYY-YY', such as '2017-18'. If no season was requested, the career stats will be returned for the player and the season will default to 'Career'.

## steal\_percentage

Returns a float of the percentage of defensive possessions that ended with the player stealing the ball while on the floor. Percentage ranges from 0-100.

### steals

Returns an int of the total number of steals the player tallied during the season.

### team abbreviation

Returns a string of the abbrevation for the team the player plays for, such as 'PURDUE' for Carsen Edwards.

### three\_point\_attempt\_rate

Returns a float of the percentage of field goals that are shot from beyond the 3-point arc. Percentage ranges from 0-1.

# three\_point\_attempts

Returns an int of the total number of three point field goals the player attempted during the season.

## three\_point\_percentage

Returns a float of the player's three point field goal percentage during the season. Percentage ranges from 0-1.

### three pointers

Returns an int of the total number of three point field goals the player made.

## total\_rebound\_percentage

Returns a float of the percentage of available rebounds the player grabbed, both offensive and defensive. Percentage ranges from 0-100.

### total rebounds

Returns an int of the total number of offensive and defensive rebounds the player grabbed during the season.

### true\_shooting\_percentage

Returns a float of the player's true shooting percentage which takes into account two and three pointers as well as free throws. Percentage ranges from 0-1.

### turnover\_percentage

Returns a float of the average number of turnovers per 100 possessions by the player.

#### turnovers

Returns an int of the total number of times the player turned the ball over during the season for any reason.

#### two\_point\_attempts

Returns an int of the total number of two point field goals the player attempted during the season.

### two\_point\_percentage

Returns a float of the player's two point field goal percentage during the season. Percentage ranges from 0-1.

#### two\_pointers

Returns an int of the total number of two point field goals the player made.

# usage\_percentage

Returns a float of the percentage of plays the player is involved in while on the floor. Percentage ranges from 0-100.

# weight

Returns an int of the player's weight in pounds.

#### win shares

Returns a float of the number of wins the player contributed to the team as a result of his offensive and defensive plays.

## win\_shares\_per\_40\_minutes

Returns a float of the number of wins the player contributed to the team per 40 minutes of playtime. An average player has a contribution of 0.100.

## class sportsreference.ncaab.roster.Roster(team, year=None)

Bases: object

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the players statistics and information.

#### **Parameters**

- team (string) The team's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.
- **year** (*string* (*optional*)) The 4-digit year to pull the roster from, such as '2018'. If left blank, defaults to the most recent season.

#### players

Returns a list of player instances for each player on the requested team's roster.

## **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.ncaab.schedule import Schedule

purdue_schedule = Schedule('PURDUE')
for game in purdue_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
    # Creates an instance of the Boxscore class for the game.
    boxscore = game.boxscore
```

```
class sportsreference.ncaab.schedule.Game(game_data)
```

Bases: object

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

**Parameters** game\_data (string) - The row containing the specified game information.

#### arena

Returns a string of the name of the arena the game was played at.

#### boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

## boxscore\_index

Returns a string of the URI for a boxscore which can be used to access or index a game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

### dataframe\_extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the game's date, such as 'Fri, Nov 10, 2017'.

#### datetime

Returns a datetime object to indicate the month, day, year, and time the requested game took place.

### game

Returns an int of the game's position in the season. The first game of the season returns 1.

#### location

Returns a string constant to indicate whether the game was played at the team's home venue, the opponent's venue, or at a neutral site.

# opponent\_abbr

Returns a string of the opponent's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.

#### opponent conference

Returns a string of the opponent's conference, such as 'Big Ten' for a team participating in the Big Ten Conference. If the team is not a Division-I school, a string constant for non-majors is returned.

### opponent\_name

Returns a string of the opponent's name, such as the 'Purdue Boilermakers'.

#### opponent\_rank

Returns a string of the opponent's rank when the game was played and None if the team was unranked.

## overtimes

Returns an int of the number of overtimes that were played during the game and 0 if the game finished at the end of regulation time.

### points\_against

Returns an int of the number of points the team allowed during the game.

#### points\_for

Returns an int of the number of points the team scored during the game.

#### result

Returns a string constant to indicate whether the team won or lost the game.

### season losses

Returns an int of the number of games the team has lost after the conclusion of the requested game.

#### season\_wins

Returns an int of the number of games the team has won after the conclusion of the requested game.

#### streak

Returns a string of the team's win streak at the conclusion of the requested game. Streak is in the format '[WIL] #' (ie. 'W 3' indicates a 3-game winning streak while 'L 2' indicates a 2-game losing streak.

## time

Returns a string to indicate the time the game started, such as '9:00 pm/est'.

### type

Returns a string constant to indicate whether the game was played during the regular season or in the post season.

### **class** sportsreference.ncaab.schedule.**Schedule**(abbreviation, year=None)

Bases: object

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

#### **Parameters**

- **abbreviation** (*string*) A team's short name, such as 'PURDUE' for the Purdue Boilermakers.
- **year** (string (optional)) The requested year to pull stats from.

## dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

### dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

### **Teams**

The Teams module exposes information for all NCAAB teams including the team name and abbreviation, the number of games they won during the season, the total number of shots they've blocked, and much more.

```
from sportsreference.ncaab.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    print(team.blocks) # Prints the number of shots the team blocked
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.ncaab.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.ncaab.teams import Teams

for team in Teams():
    roster = team.roster # Gets each team's roster
    for player in roster.players:
        print(player.name) # Prints each players name on the roster
```

```
class sportsreference.ncaab.teams.Team(team_data, team_conference=None, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as full and short names, and sets them as properties which can be directly read from for easy reference.

# **Parameters**

- **team\_data** (*string*) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- team\_conference (string (optional)) A string of the team's conference abbreviation, such as 'big-12'.
- year (string (optional)) The requested year to pull stats from.

## abbreviation

Returns a string of the team's short name, such as 'PURDUE' for the Purdue Boilermakers.

#### assist percentage

Returns a float of the percentage of field goals that were assisted. Percentage ranges from 0-100.

#### assists

Returns an int of the total number of assists during the season.

## away\_losses

Returns an int of the total number of away games the team lost during the season.

### away\_wins

Returns an int of the total number of away games the team won during the season.

### block percentage

Returns a float of the percentage of 2-point field goals by the opponent that were blocked. Percentage ranges from 0-100.

### blocks

Returns an int of the total number of blocks during the season.

#### conference

Returns a string of the team's conference abbreviation, such as 'big-12' for the Big 12 Conference.

### conference\_losses

Returns an int of the total number of conference games the team lost during the season.

#### conference wins

Returns an int of the total number of conference games the team won during the season.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'PURDUE'.

#### defensive rebounds

Returns an int of the total number of defensive rebounds during the season.

## effective\_field\_goal\_percentage

Returns a float of the field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

### field\_goal\_attempts

Returns an int of the total number of field goal attempts during the season.

## field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts. Percentage ranges from 0-1.

## field\_goals

Returns an int of the total number of field goals made during the season.

### free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt.

### free\_throw\_attempts

Returns an int of the total number of free throw attempts during the season.

# free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts during the season.

#### free throws

Returns an int of the total number of free throws made during the season.

## free\_throws\_per\_field\_goal\_attempt

Returns a float of the number of free throws per field goal attempt.

### games\_played

Returns an int of the total number of games the team has played during the season.

### home losses

Returns an int of the total number of home games the team lost during the season.

#### home wins

Returns an int of the total number of home games the team won during the season.

#### losses

Returns an int of the total number of games the team lost during the season.

## minutes\_played

Returns an int of the total number of minutes played by the team during the season.

#### name

Returns a string of the team's full name, such as 'Purdue Boilermakers'.

### net\_rating

Returns a float of the net team rating which is equivalent to the difference between the offensive rating and the defensive (or the opponent's offensive) rating. Positive values indicate teams that score more points than they allow per 100 possessions.

## offensive\_rating

Returns a float of the average number of points scored per 100 possessions.

### offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds a team grabbed. Percentage ranges from 0-100.

## offensive\_rebounds

Returns an int of the total number of offensive rebounds during the season.

### opp\_assist\_percentage

Returns a float of the percentage of the opponent's field goals that were assisted. Percentage ranges from 0-100.

### opp\_assists

Returns an int of the total number of assists during the season by opponents.

#### opp\_block\_percentage

Returns a float of the percentage of 2-point field goals that were blocked by the opponent. Percentage ranges from 0-100.

## opp\_blocks

Returns an int of the total number of blocks during the season by opponents.

# opp\_defensive\_rebounds

Returns an int of the total number of defensive rebounds during the season by opponents.

# opp\_effective\_field\_goal\_percentage

Returns a float of the opponent's field goal percentage while giving extra weight to 3-point field goals. Percentage ranges from 0-1.

### opp\_field\_goal\_attempts

Returns an int of the total number of field goal attempts during the season by opponents.

## opp\_field\_goal\_percentage

Returns a float of the number of field goals made divided by the total number of field goal attempts by opponents. Percentage ranges from 0-1.

## opp\_field\_goals

Returns an int of the total number of field goals made during the season by opponents.

### opp\_free\_throw\_attempt\_rate

Returns a float of the average number of free throw attempts per field goal attempt by the opponent.

# opp\_free\_throw\_attempts

Returns an int of the total number of free throw attempts during the season by opponents.

## opp\_free\_throw\_percentage

Returns a float of the number of free throws made divided by the number of free throw attempts during the season by opponents.

### opp\_free\_throws

Returns an int of the total number of free throws made during the season by opponents.

## opp\_free\_throws\_per\_field\_goal\_attempt

Returns a float of the number of free throws per field goal attempt by the opponent.

## opp\_offensive\_rating

Returns a float of the average number of points scored per 100 possessions by the opponent. This is equivalent to the team's defensive rating as it is the number of points the team allows per 100 possessions by the opponent.

### opp\_offensive\_rebound\_percentage

Returns a float of the percentage of available offensive rebounds the opponent grabbed. Percentage ranges from 0-100.

## opp\_offensive\_rebounds

Returns an int of the total number of offensive rebounds during the season by opponents.

## opp\_personal\_fouls

Returns an int of the total number of personal fouls during the season by opponents.

#### opp\_points

Returns an int of the total number of points opponents have scored during the season.

## opp\_steal\_percentage

Returns a float of the percentage of possessions that ended in a steal by the opponent. Percentage ranges from 0-100.

## opp\_steals

Returns an int of the total number of steals during the season by opponents.

### opp\_three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range by the opponent. Percentage ranges from 0-1.

# opp\_three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts during the season by opponents.

### opp\_three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts by opponents. Percentage ranges from 0-1.

# opp\_three\_point\_field\_goals

Returns an int of the total number of three point field goals made during the season by opponents.

#### opp\_total\_rebound\_percentage

Returns a float of the percentage of available rebounds the opponent grabbed. Percentage ranges from 0-100.

# opp\_total\_rebounds

Returns an int of the total number of rebounds during the season by opponents.

# opp\_true\_shooting\_percentage

Returns a float of the opponent's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

### opp\_turnover\_percentage

Returns a float of the number of times the opponent turned the ball over per 100 possessions.

#### opp turnovers

Returns an int of the total number of turnovers during the season by opponents.

### opp\_two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts during the season by opponents.

### opp\_two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts by opponents. Percentage ranges from 0-1.

## opp\_two\_point\_field\_goals

Returns an int of the total number of two point field goals made during the season by opponents.

#### pace

Returns a float of the average number of possessions per 40 minutes.

#### personal\_fouls

Returns an int of the total number of personal fouls during the season.

#### points

Returns an int of the total number of points the team scored during the season.

#### roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

## schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

# simple\_rating\_system

Returns a float of the team's average point differential compared to the strength of schedule. Higher values indicate stronger teams. An average team is denoted with 0.0. Negative numbers are comparatively worse than average.

### steal\_percentage

Returns a float of the percentage of opponent possessions that ended in a steal. Percentage ranges from 0-100.

#### steals

Returns an int of the total number of steals during the season.

### strength\_of\_schedule

Returns a float of the team's strength of schedule based on the points above and below average. An average strength of schedule is denoted with 0.0. Negative numbers are comparatively easier than average.

# three\_point\_attempt\_rate

Returns a float of the percentage of field goal attempts from 3-point range. Percentage ranges from 0-1.

#### three\_point\_field\_goal\_attempts

Returns an int of the total number of three point field goal attempts during the season.

## three\_point\_field\_goal\_percentage

Returns a float of the number of three point field goals made divided by the number of three point field goal attempts. Percentage ranges from 0-1.

#### three point field goals

Returns an int of the total number of three point field goals made during the season.

## total\_rebound\_percentage

Returns a float of the percentage of available rebounds a team grabbed. Percentage ranges from 0-100.

#### total\_rebounds

Returns an int of the total number of rebounds during the season.

### true\_shooting\_percentage

Returns a float of the team's true shooting percentage which considers free throws, 2-point field goals, and 3-point field goals. Percentage ranges from 0-1.

#### turnover\_percentage

Returns a float of the number of times the team turned the ball over per 100 possessions.

### turnovers

Returns an int of the total number of turnovers during the season.

### two\_point\_field\_goal\_attempts

Returns an int of the total number of two point field goal attempts during the season.

### two\_point\_field\_goal\_percentage

Returns a float of the number of two point field goals made divided by the number of two point field goal attempts. Percentage ranges from 0-1.

### two\_point\_field\_goals

Returns an int of the total number of two point field goals made during the season.

## win\_percentage

Returns a float of the number of wins divided by the number of games played during the season. Percentage ranges from 0-1.

## wins

Returns an int of the total number of games the team won during the season.

# class sportsreference.ncaab.teams.Teams (year=None)

Bases: object

A list of all NCAA Men's Basketball teams and their stats in a given year.

Finds and retrieves a list of all NCAA Men's Basketball teams from www.sports-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters** year (string (optional)) - The requested year to pull stats from.

#### dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

# 1.6.1.4 NCAAF Package

The NCAAF package offers multiple modules which can be used to retrieve information and statistics for Division-I College Football, such as team names, season stats, game schedules, and boxscore metrics.

### **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of points scored to the number of pass yards, to the yards from penalties and much more. The Boxscore can be easily queried by

passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.ncaaf.boxscore import Boxscore

game_data = Boxscore('2018-01-08-georgia')
print(game_data.home_points) # Prints 23
print(game_data.away_points) # Prints 26
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from datetime import datetime
from sportsreference.ncaaf.boxscore import Boxscores

games_today = Boxscores(datetime.today())
print(games_today.games) # Prints a dictionary of all matchups for today
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from datetime import datetime
from sportsreference.ncaaf.boxscore import Boxscores

# Pulls all games between and including August 30, 2017 and August 31, 2017
games = Boxscores(datetime(2017, 8, 30), datetime(2017, 8, 31))
# Prints a dictionary of all results from August 30, 2017 and August 31,
# 2017
print(games.games)
```

```
class sportsreference.ncaaf.boxscore.Boxscore(uri)
    Bases: object
```

Detailed information about the final statistics for a game.

Stores all relevant information for a game such as the date, time, location, result, and more advanced metrics such as the number of fumbles from sacks, a team's passing completion, rushing touchdowns and much more.

**Parameters uri** (string) – The relative link to the boxscore HTML page, such as '2018-01-08-georgia'.

# away\_first\_downs

Returns an int of the number of first downs the away team gained.

#### away fumbles

Returns an int of the number of times the away team fumbled the ball.

## away\_fumbles\_lost

Returns an int of the number of times the away team turned the ball over as the result of a fumble.

### away\_interceptions

Returns an int of the number of interceptions the away team threw.

### away\_pass\_attempts

Returns an int of the number of passes that were thrown by the away team.

### away\_pass\_completions

Returns an int of the number of completed passes the away team made.

### away\_pass\_touchdowns

Returns an int of the number of passing touchdowns the away team scored.

### away\_pass\_yards

Returns an int of the number of passing yards the away team gained.

#### away\_penalties

Returns an int of the number of penalties called on the away team.

#### away points

Returns an int of the number of points the away team scored.

## away\_rush\_attempts

Returns an int of the number of rushing plays the away team made.

#### away\_rush\_touchdowns

Returns an int of the number of rushing touchdowns the away team scored.

### away\_rush\_yards

Returns an int of the number of rushing yards the away team gained.

#### away total yards

Returns an int of the total number of yards the away team gained.

### away\_turnovers

Returns an int of the number of times the away team turned the ball over.

#### away\_yards\_from\_penalties

Returns an int of the number of yards gifted as a result of penalties called on the away team.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as '2018-01-08-georgia'.

#### date

Returns a string of the date the game took place.

## home\_first\_downs

Returns an int of the number of first downs the home team gained.

### home\_fumbles

Returns an int of the number of times the home team fumbled the ball.

## home\_fumbles\_lost

Returns an int of the number of times the home team turned the ball over as the result of a fumble.

## home\_interceptions

Returns an int of the number of interceptions the home team threw.

#### home\_pass\_attempts

Returns an int of the number of passes that were thrown by the home team.

# home\_pass\_completions

Returns an int of the number of completed passes the home team made.

### home\_pass\_touchdowns

Returns an int of the number of passing touchdowns the home team scored.

### home\_pass\_yards

Returns an int of the number of passing yards the home team gained.

## home\_penalties

Returns an int of the number of penalties called on the home team.

## home\_points

Returns an int of the number of points the home team scored.

## home\_rush\_attempts

Returns an int of the number of rushing plays the home team made.

### home\_rush\_touchdowns

Returns an int of the number of rushing touchdowns the home team scored.

#### home rush yards

Returns an int of the number of rushing yards the home team gained.

# home\_total\_yards

Returns an int of the total number of yards the home team gained.

#### home turnovers

Returns an int of the number of times the home team turned the ball over.

## home\_yards\_from\_penalties

Returns an int of the number of yards gifted as a result of penalties called on the home team.

#### losing abbr

Returns a string of the losing team's abbreviation, such as 'GEORGIA' for the Georgia Bulldogs.

## losing\_name

Returns a string of the losing team's name, such as 'Georgia'.

#### stadium

Returns a string of the name of the stadium where the game was played.

#### time

Returns a string of the time the game started.

## winner

Returns a string constant indicating whether the home or away team won.

### winning abbr

Returns a string of the winning team's abbreviation, such as 'ALABAMA' for the Alabama Crimson Tide.

### winning\_name

Returns a string of the winning team's name, such as 'Alabama'.

## **class** sportsreference.ncaaf.boxscore.**Boxscores**(date, end\_date=None)

Bases: object

Search for NCAAF games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, a boolean value which indicates if the game is between two Division-I teams or not, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

#### **Parameters**

- date (datetime object) The date to search for any matches. The month, day, and year are required for the search, but time is not factored into the search.
- end\_date (datetime object) Optionally specify an end date to iterate until. All boxscores starting from the date specified in the 'date' parameter up to and including the boxscores specified in the 'end\_date' parameter will be pulled. If left empty, or if 'end\_date' is prior to 'date', only the games from the day specified in the 'date' parameter will be saved.

#### games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

```
{'date' : [ # 'date' is the string date in format 'MM-DD-YYYY'
        'home_name': Name of the home team, such as 'Purdue
                    Boilermakers' (`str`),
        'home_abbr': Abbreviation for the home team, such as
                     'PURDUE' (`str`),
        'away_name': Name of the away team, such as 'Indiana
                     Hoosiers' (`str`),
        'away_abbr': Abbreviation for the away team, such as
                     'INDIANA' (`str`),
        'boxscore': String representing the boxscore URI, such as
                    '2018-01-28-15-indiana' (`str`),
        'non_di': Boolean value which evaluates to True when at
                 least one of the teams does not compete in NCAA
                 Division-I basketball (`bool`),
        'top_25': Boolean value which evaluates to True when at
                 least one of the teams is ranked in the AP Top 25
                 polls (`bool`),
        'winning_name': Full name of the winning team, such as
                        'Purdue Boilermakers' (`str`),
        'winning_abbr': Abbreviation for the winning team, such as
                        'PURDUE' (`str`),
        'losing_name': Full name of the losing team, such as
                       'Indiana Hoosiers' (`str`),
        'losing_abbr': Abbreviation for the losing team, such as
                       'INDIANA' (`str`),
        'home_score': Integer score for the home team (`int`),
        'home_rank': Integer representing the home team's rank
                     (`int`),
        'away_score': Integer score for the away team (`int`),
        'away_rank': Integer representing the away team's rank
                     (`int`)
   },
   { ... },
    . . .
   ]
```

If no games were played on 'date', the list for ['date'] will be empty.

sportsreference.ncaaf.boxscore.ncaaf\_int\_property\_sub\_index(func)

#### **Conferences**

The Conference module allows conferences to be pulled for any season using the Conferences class. Accessing the class properties exposes various dictionaries containing the team and conference abbreviations as well as other information. To get a list of conference abbreviations for each team, query the team\_conference property.

```
from sportsreference.ncaaf.conferences import Conferences

conferences = Conferences()
# Prints a dictionary of the team abbreviation as a key and conference
```

```
# abbreviation as the value.
print(conferences.team_conference)
```

The conferences property can also be queried to provide more details on the teams in every conference.

```
from sportsreference.ncaab.conferences import Conferences

conferences = Conferences()
# Prints a dictionary where each key is the conference abbreviation and
# each value is a dictionary containing the full conference name as well as
# another dictionary of all teams in the conference, including name and
# abbreviation for each team.
print(conferences.conferences)
```

Bases: object

Find teams that participated in a particular conference.

Create a dictionary which includes the names and abbreviations for all teams that participated in a conference during a given year.

### **Parameters**

- **conference\_abbreviation** (*string*) A string of the requested conference's abbreviation, such as 'big-12'.
- year (string (optional)) A string of the requested year to pull conference information from. Defaults to the most recent season.

### teams

Returns a dictionary of team names and abbreviations where each key is a string of the team abbreviation and each value is a string of the full team name.

```
class sportsreference.ncaaf.conferences.Conferences(year=None)
    Bases: object
```

Get all conferences and teams for a season.

Retrieve a list of all conferences and teams that participated in the conference for each team in the season. The included properties allow flexibility in queries to either get the conference abbreviation for a given team, or get more detailed information including all teams for each conference.

**Parameters year** (string (optional)) - A string of the requested year to pull conferences from. Defaults to the most recent season.

### conferences

Returns a dictionary of conference names and abbreviations where each key is a string of the abbreviation and each value is a dictionary containing the full conference name and another dictionary with individual team information. The overall dictionary is in the following structure:

```
}, ...
}, ...
}
```

### team\_conference

Returns a dictionary of conference abbreviations for each team where each key is a string of the team abbreviation and each value is a string of the conference abbreviation.

## **Rankings**

The Rankings module include the Rankings class which can be used to easily query the NCAA Men's Division-I Football rankings published by the Associated Press on a week-by-week basis. Different formats can be referenced, ranging from a lightweight dictionary of the most recent rankings containing only the team abbreviation and rank, to a much larger dictionary of all rankings for an entire season with results including full team name and abbreviation, current rank, week number, previous rank, and movement.

```
from sportsreference.ncaaf.rankings import Rankings

rankings = Rankings()
# Prints a dictionary of just the team abbreviation and rank for the current
# week.
print(rankings.current)
# Prints more detailed information including previous rank, full name, and
# movement for all teams for the current week.
print(rankings.current_extended)
# Prints detailed information for all teams for all weeks where rankings
# have been published for the requested season.
print(rankings.complete)
```

```
class sportsreference.ncaaf.rankings.Rankings(year=None)
    Bases: object
```

Get all Associated Press (AP) rankings on a week-by-week basis.

Grab a list of the rankings published by the Associated Press to easily query the hierarchy of teams each week. The results expose the current and previous rankings as well as the movement for each team in the list.

**Parameters year** (string (optional)) - A string of the requested year to pull rankings from. Defaults to the most recent season.

#### complete

Returns a dictionary where each key is a week number as an int and each value is a list of dictionaries containing the AP rankings for each week. Within each list is a dictionary of team information such as name, abbreviation, rank, and more. Note that the list might not necessarily be in the same order as the rankings.

The overall dictionary has the following structure:

```
'rank': Team's rank for the current week (int),
'week': Week number for the results, such as 16 (int),
'date': Date the rankings were released, such as
'2017-12-03'. Can also be 'Final' for the final
rankings or 'Preseason' for preseason rankings
(str),
'previous': The team's previous rank, if applicable
(str),
'change': The amount the team moved up or down the
rankings. Moves up the ladder have a positive
number while drops yield a negative number
and teams that didn't move have 0 (int)
},
...
},
```

#### current

Returns a dictionary of the most recent rankings from the Associated Press where each key is a string of the team's abbreviation and each value is an int of the team's rank for the current week.

#### current extended

Returns a list of dictionaries of the most recent AP rankings. The list is ordered in terms of the ranking so the #1 team will be in the first element and the #25 team will be the last element. Each dictionary has the following structure:

### Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career touchdowns to single-season stats and player height, weight, and nationality. The following is an example on collecting career information for David Blough.

```
from sportsreference.ncaaf.roster import Player

blough = Player('david-blough-1')
print(blough.name) # Prints 'David Blough'
print(blough.passing_yards) # Prints Blough's career passing yards
# Prints a Pandas DataFrame of all relevant stats per season for Blough
print(blough.dataframe)
```

By default, the player's career stats are returned whenever a property is called. To get stats for a specific team, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.ncaaf.roster import Player

blough = Player('david-blough-1') # Currently pulling career stats
print(blough.passing_yards) # Prints Blough's CAREER passing yards total
# Prints Blough's passing yards total only for the 2017 season
print(blough('2017').passing_yards)
# Prints Blough's passing touchdowns for the 2017 season only
print(blough.passing_touchdowns)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.ncaaf.roster import Player

blough = Player('david-blough-1') # Currently pulling career stats
# Prints Blough's passing yards total only for the 2017 season
print(blough('2017').passing_yards)
print(blough('Career').passing_yards) # Prints Blough's career passing yards
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.ncaaf.roster import Roster

boilermakers = Roster('PURDUE')
for player in boilermakers.players:
    # Prints the name of all players who played for the Purdue Boilermakers
    # in the most recent season.
    print(player.name)
```

```
class sportsreference.ncaaf.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'david-blough-1' for David Blough, capture all relevant stats and information like name, team, height/weight, career starts, single season pasing yards, sacks, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on sports-reference.com.

**Parameters player\_id** (string) – A player's ID according to sports-reference.com, such as 'david-blough-1' for David Blough. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.html' in the URL. In general, the ID is in the format 'first-last-n' where 'first' is the player's first name in lowercase, 'last' is the player's last name in lowercase, and 'n' is a number starting at '1' for the first time that player ID has been used and increments by 1 for every successive player.

## adjusted\_yards\_per\_attempt

Returns a float of the adjusted number of yards gained per passing attempt, equal to (yards + 20 \* pass\_touchdowns - 45 \* interceptions) / pass\_attempts.

## assists\_on\_tackles

Returns an int of the number of assists the player made on tackles.

### attempted passes

Returns an int of the number of passes the player attempted.

## completed\_passes

Returns an int of the number of completed passes the player threw.

#### dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

## extra\_points\_made

Returns an int of the number of extra points the player made.

#### field\_goals\_made

Returns an int of the total number of field goals the player made from any distance.

#### fumbles forced

Returns an int of the number of times the player forced a fumble.

### fumbles\_recovered

Returns an int of the number of fumbles the player has recovered.

### fumbles\_recovered\_for\_touchdown

Returns an int of the number of touchdowns the player has scored after recovering a fumble.

### games

Returns an int of the number of games the player participated in.

### height

Returns a string of the player's height in the format "feet-inches".

### interceptions

Returns an int of the number of times the player intercepted a pass.

# interceptions\_returned\_for\_touchdown

Returns an int of the number of touchdowns the player has scored after intercepting a pass. Commonly referred to as a 'Pick-6'.

### interceptions\_thrown

Returns an int of the number of interceptions the player has thrown.

### kickoff\_return\_touchdowns

Returns an int of the number of kickoffs the player returned for a touchdown.

### name

Returns a string of the player's name, such as 'David Blough'.

#### other touchdowns

Returns an int of the total number of all other types of touchdowns the player has scored.

### passes\_defended

Returns an int of the number of passes the player has defended as a defensive player.

# passing\_completion

Returns a float of the percentage of passes that were caught by a receiver. Percentage ranges from 0-100.

## passing\_touchdowns

Returns an int of the number of touchdowns passes the player has thrown.

## passing\_yards\_per\_attempt

Returns a float of the number of yards gained per passing attempt.

### player\_id

Returns a string of the player's ID on sports-reference, such as 'david-blough-1' for David Blough.

## plays\_from\_scrimmage

Returns an int of the combined number of rushing attempts and receptions the player had.

## points

Returns an int of the number of points the player has scored.

#### position

Returns a string of the player's primary position.

## punt\_return\_touchdowns

Returns an int of the number of punts the player returned for a touchdown.

### quarterback\_rating

Returns a float of the player's quarterback rating.

### receiving\_touchdowns

Returns an int of the number of touchdowns the player scored after receiving a pass.

#### receiving yards

Returns an int of the number of receiving yards the player gained.

### receiving\_yards\_per\_reception

Returns a float of the average number of yards the player gained per reception.

#### receptions

Returns an int of the number of receptions the player made.

### rush attempts

Returns an int of the number of rushing plays the player attempted.

## rush\_touchdowns

Returns an int of the number of rushing touchdowns the player scored.

# rush\_yards

Returns an int of the number of rushing yards the player gained.

## rush\_yards\_per\_attempt

Returns a float of the average number of yards gained per rushing attempt.

# rushing\_and\_receiving\_touchdowns

Returns an int of the combined number of rushing and receiving touchdowns the player scored.

### sacks

Returns a float of the number of times the player sacked a quarterback.

#### safeties

Returns an int of the number of safeties the player has scored.

#### season

Returns a string of the season in the format 'YYYY', such as '2017'. If no season was requested, the career stats will be returned for the player and the season will default to 'Career'.

#### solo tackles

Returns an int of the number of tackles the player made by himself.

### tackles\_for\_loss

Returns a float of the number of tackles for a loss the player made.

## team abbreviation

Returns a string of the team's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.

#### total tackles

Returns an int of the number of tackles the player made.

### total\_touchdowns

Returns an int of the total number of touchdowns the player has scored.

### two\_point\_conversions

Returns an int of the number of two point conversions the player has scored.

### weight

Returns an int of the player's weight in pounds.

## yards\_from\_scrimmage

Returns an int of the total number of yards gained from scrimmage for both rushing and receiving.

### yards\_from\_scrimmage\_per\_play

Returns a float of the average number of yards gained per rushing attempt and/or reception.

### yards\_recovered\_from\_fumble

Returns an int of the number of yards the player gained after recovering a fumble.

## yards\_returned\_from\_interceptions

Returns an int of the number of yards the player returned after intercepting a pass.

# yards\_returned\_per\_interception

Returns a float of the average number of yards the player returns after intercepting a pass.

#### year

Returns a string of the player's class designation, such as'FR' for freshmen.

```
class sportsreference.ncaaf.roster.Roster(team, year=None)
    Bases: object
```

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the player's statistics and information.

### **Parameters**

- **team** (*string*) The team's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.
- **year** (*string* (*optional*)) The 4-digit year to pull the roster from, such as '2017'. If left blank, defaults to the most recent season.

# players

Returns a list of player instances for each player on the requested team's roster.

### **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.ncaaf.schedule import Schedule

purdue_schedule = Schedule('PURDUE')
for game in purdue_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
```

# Creates an instance of the Boxscore class for the game.
boxscore = game.boxscore

## class sportsreference.ncaaf.schedule.Game(game\_data)

Bases: object

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

**Parameters** game\_data (string) - The row containing the specified game information.

#### boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

### boxscore\_index

Returns a string of the URI for a boxscore which can be used to access or index a game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

## dataframe\_extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the date the game was played, such as 'Sep 2, 2017'.

#### datetime

Returns a datetime object of the month, day, year, and time the game was played. If the game doesn't include a time, the default value of '00:00' will be used.

# day\_of\_week

Returns a string of the 3-letter abbreviation of the day of the week the game was played on, such as 'Sat' for Saturday.

### game

Returns an int to indicate which game in the season was requested. The first game of the season returns 1.

## location

Returns a string constant to indicate whether the game was played at home, away, or in a neutral location.

### losses

Returns an int of the number of games the team has lost so far in the season at the conclusion of the requested game.

## opponent\_abbr

Returns a string of the opponent's abbreviation, such as 'PURDUE' for the Purdue Boilermakers.

# opponent\_conference

Returns a string of the conference the team participates in, such as 'Big Ten' for the Big Ten Conference. If a team does not compete in Division-I, a string constant for the non-major school will be returned.

### opponent\_name

Returns a string of the opponent's name, such as 'Purdue Boilermakers' for the Purdue Boilermakers.

### opponent rank

Returns an int of the opponent's rank at the time the game was played.

## points\_against

Returns an int of the number of points the team allowed during the game.

### points\_for

Returns an int of the number of points the team scored during the game.

#### rank

Returns an int of the team's rank at the time the game was played.

#### result

Returns a string constant to indicate whether the team won or lost the game.

#### streak

Returns a string of the team's winning streak at the conclusion of the requested game. Streaks are listed in the format '[WIL] #' (ie. 'W 3' for a 3-game winning streak and 'L 2' for a 2-game losing streak).

### time

Returns a string of the time the game started, such as '12 – 00 PM'.

#### wins

Returns an int of the number of games the team has won so far in the season at the conclusion of the requested game.

```
class sportsreference.ncaaf.schedule.Schedule(abbreviation, year=None)
    Bases: object
```

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

### **Parameters**

- **abbreviation** (*string*) A team's short name, such as 'MICHIGAN' for the Michigan Wolverines.
- year (string (optional)) The requested year to pull stats from.

## dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

# dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

#### **Teams**

The Teams module exposes information for all NCAAF teams including the team name and abbreviation, the number of games they won during the season, the total number of pass yards, and much more.

```
from sportsreference.ncaaf.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    print(team.pass_yards) # Prints the team's total passing yards
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.ncaaf.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.ncaaf.teams import Teams

for team in Teams():
    roster = team.roster # Gets each team's roster
    for player in roster.players:
        print(player.name) # Prints each players name on the roster
```

```
class sportsreference.ncaaf.teams.Team(team_data, team_conference=None, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as full and short names, and sets them as properties which can be directly read from for easy reference.

### **Parameters**

- **team\_data** (string) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- **team\_conference** (*string* (*optional*)) A string of the team's conference abbreviation, such as 'big-12'.
- year (string (optional)) The requested year to pull stats from.

### abbreviation

Returns a string of the team's short name, such as 'PURDUE' for the Purdue Boilermakers.

#### conference

Returns a string of the team's conference abbreviation, such as 'big-12' for the Big 12 Conference.

### conference\_losses

Returns an int of the total number of conference games the team lost during the season.

# conference\_win\_percentage

Returns a float of the percentage of conference wins divided by the number of conference games played during the season. Percentage ranges from 0-1.

#### conference\_wins

Returns an int of the total number of conference games the team won during the season.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'PURDUE'.

#### first downs

Returns a float of the total number of first downs achieved per game.

## first\_downs\_from\_penalties

Returns a float of the average number of first downs from an opponent's penalties per game.

## fumbles\_lost

Returns a float of the average number of fumbles per game.

#### games

Returns an int of the total number of games the team has played during the season.

### interceptions

Returns a float of the average number of interceptions thrown per game.

#### losses

Returns an int of the total number of games the team lost during the season.

#### name

Returns a string of the team's full name, such as 'Purdue Boilermakers'.

#### pass attempts

Returns a float of the average number of passes that are attempted per game.

## pass\_completion\_percentage

Returns a float of the percentage of completed passes per game. Percentage ranges from 0-100.

### pass\_completions

Returns a float of the average number of completed passes per game.

## pass\_first\_downs

Returns a float of the average number of first downs from passing plays per game.

# pass\_touchdowns

Returns a float of the average number of passing touchdowns scored per game.

#### pass vards

Returns a float of the average number of yards gained from passing per game.

### penalties

Returns a float the average number of penalties conceded per game.

#### plays

Returns a float of the average number of offensive plays per game.

# points\_against\_per\_game

Returns a float of the average number of points conceded per game.

### points\_per\_game

Returns a float of the average number of points scored by the team per game.

## roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

#### rush attempts

Returns a float of the average number of rushing plays per game.

# rush\_first\_downs

Returns a float of the average number of first downs from rushing plays per game.

## rush touchdowns

Returns a float of the average number of rushing touchdowns scored per game.

#### rush vards

Returns a float of the average number of yards gained from rushing per game.

## rush\_yards\_per\_attempt

Returns a float of the average number of yards gained per rushing attempt per game.

#### schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

## simple\_rating\_system

Returns a float of the team's relative strength based on the average margin of victory and the strength of schedule. An average team is denoted with 0.0 while a negative score indicates a comparatively weak team.

## strength\_of\_schedule

Returns a float of the team's strength of schedule based on the number of points above or below average. An average difficulty schedule is denoted with 0.0 while a negative score indicates a comparatively easy schedule.

#### turnovers

Returns a float of the average number of turnovers per game.

### win\_percentage

Returns a float of the percentage of wins divided by the number of games played during the season. Percentage ranges from 0-1.

#### wins

Returns an int of the total number of games the team won during the season.

### yards

Returns a float of the average number of yards gained per game.

## yards\_from\_penalties

Returns a float of the average number of yards gained from an opponent's penalties per game.

# yards\_per\_play

Returns a float of the average number of yards gained per play.

## class sportsreference.ncaaf.teams.Teams(year=None)

Bases: object

A list of all NCAA Men's Football teams and their stats in a given year.

Finds and retrieves a list of all NCAA Men's Football teams from www.sports-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters** year (string (optional)) - The requested year to pull stats from.

### dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

## 1.6.1.5 NFL Package

The NFL package offers multiple modules which can be used to retrieve information and statistics for the National Football League, such as team names, season stats, game schedules, and boxscore metrics.

### **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of points scored to the number of passing yards, to the number of yards lost from sacks and much more. The Boxscore can be easily queried by passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.nfl.boxscore import Boxscore

game_data = Boxscore('201802040nwe')
print(game_data.home_points) # Prints 33
print(game_data.away_points) # Prints 41
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from sportsreference.nfl.boxscore import Boxscores

games_today = Boxscores(1, 2017)
# Prints a dictionary of all matchups for week 1 of 2017
print(games_today.games)
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from sportsreference.nfl.boxscore import Boxscores

# Pulls all games from weeks 7 and 8 in 2017
games = Boxscores(7, 2017, 8)
# Prints a dictionary of all games from weeks 7 and 8 in 2017
print(games.games)
```

```
class sportsreference.nfl.boxscore.Boxscore(uri)
    Bases: object
```

Detailed information about the final statistics for a game.

Stores all relevant information for a game such as the date, time, location, result, and more advanced metrics such as the number of yards from sacks, a team's passing completion, rushing touchdowns and much more.

**Parameters uri** (*string*) – The relative link to the boxscore HTML page, such as '201802040nwe'.

#### attendance

Returns an int of the game's listed attendance.

### away\_first\_downs

Returns an int of the number of first downs the away team gained.

## away\_fourth\_down\_attempts

Returns an int of the number of fourth down plays the away team attempted to convert.

## away\_fourth\_down\_conversions

Returns an int of the number of fourth down plays the away team successfully converted.

### away\_fumbles

Returns an int of the number of times the away team fumbled the ball.

#### away fumbles lost

Returns an int of the number of times the away team turned the ball over as the result of a fumble.

## away\_interceptions

Returns an int of the number of interceptions the away team threw.

### away\_net\_pass\_yards

Returns an int of the net pass yards gained by the away team.

#### away pass attempts

Returns an int of the number of passes that were thrown by the away team.

## away\_pass\_completions

Returns an int of the number of completed passes the away team made.

#### away\_pass\_touchdowns

Returns an int of the number of passing touchdowns the away team scored.

#### away\_pass\_yards

Returns an int of the number of passing yards the away team gained.

#### away penalties

Returns an int of the number of penalties called on the away team.

### away\_points

Returns an int of the number of points the away team scored.

#### away rush attempts

Returns an int of the number of rushing plays the away team made.

## away\_rush\_touchdowns

Returns an int of the number of rushing touchdowns the away team scored.

### away\_rush\_yards

Returns an int of the number of rushing yards the away team gained.

# away\_third\_down\_attempts

Returns an int of the number of third down plays the away team attempted to convert.

## away\_third\_down\_conversions

Returns an int of the number of third down plays the away team successfully converted.

## away\_time\_of\_possession

Returns a string of the amount of time the home team had possession of the football in the format 'MM:SS'.

## away\_times\_sacked

Returns an int of the number of times the away team was sacked.

### away\_total\_yards

Returns an int of the total number of yards the away team gained.

# away\_turnovers

Returns an int of the number of times the away team turned the ball over.

# away\_yards\_from\_penalties

Returns an int of the number of yards gifted as a result of penalties called on the away team.

### away\_yards\_lost\_from\_sacks

Returns an int of the number of yards the away team lost as the result of a sack.

## dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as '201802040nwe'.

#### date

Returns a string of the date the game took place.

#### duration

Returns a string of the game's duration in the format 'H – MM'.

#### home first downs

Returns an int of the number of first downs the home team gained.

### home fourth down attempts

Returns an int of the number of fourth down plays the home team attempted to convert.

### home\_fourth\_down\_conversions

Returns an int of the number of fourth down plays the home team successfully converted.

#### home fumbles

Returns an int of the number of times the home team fumbled the ball.

## home\_fumbles\_lost

Returns an int of the number of times the home team turned the ball over as the result of a fumble.

#### home interceptions

Returns an int of the number of interceptions the home team threw.

### home\_net\_pass\_yards

Returns an int of the net pass yards gained by the home team.

#### home pass attempts

Returns an int of the number of passes that were thrown by the home team.

## home\_pass\_completions

Returns an int of the number of completed passes the home team made.

### home\_pass\_touchdowns

Returns an int of the number of passing touchdowns the home team scored.

# home\_pass\_yards

Returns an int of the number of passing yards the home team gained.

### home\_penalties

Returns an int of the number of penalties called on the home team.

# home\_points

Returns an int of the number of points the home team scored.

# home\_rush\_attempts

Returns an int of the number of rushing plays the home team made.

#### home rush touchdowns

Returns an int of the number of rushing touchdowns the home team scored.

# home\_rush\_yards

Returns an int of the number of rushing yards the home team gained.

## home\_third\_down\_attempts

Returns an int of the number of third down plays the home team attempted to convert.

#### home\_third\_down\_conversions

Returns an int of the number of third down plays the home team successfully converted.

## home\_time\_of\_possession

Returns a string of the amount of time the home team had possession of the football in the format 'MM:SS'.

#### home times sacked

Returns an int of the number of times the home team was sacked.

## home\_total\_yards

Returns an int of the total number of yards the home team gained.

### home\_turnovers

Returns an int of the number of times the home team turned the ball over.

#### home yards from penalties

Returns an int of the number of yards gifted as a result of penalties called on the home team.

## home\_yards\_lost\_from\_sacks

Returns an int of the number of yards the home team lost as the result of a sack.

### losing\_abbr

Returns a string of the losing team's abbreviation, such as 'KAN' for the Kansas City Chiefs.

## losing\_name

Returns a string of the losing team's name, such as 'Kansas City Chiefs'.

#### stadium

Returns a string of the name of the stadium where the game was played.

### time

Returns a string of the time the game started.

#### winner

Returns a string constant indicating whether the home or away team won.

### winning abbr

Returns a string of the winning team's abbreviation, such as 'NWE' for the New England Patriots.

## winning\_name

Returns a string of the winning team's name, such as 'New England Patriots'.

## class sportsreference.nfl.boxscore.Boxscores (week, year, end\_week=None)

Bases: object

Search for NFL games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

#### **Parameters**

- week (int) The week number to pull games from.
- **year** (*int*) The 4-digit year to pull games from.
- end\_week (int (optional)) Optionally specify an end week to iterate until. All boxscores starting from the week specified in the 'week' parameter up to and including the boxscores specified in the 'end\_week' parameter will be pulled. If left empty, or if 'end\_week' is prior to 'week', only the games from the day specified in the 'date' parameter will be saved.

#### games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

```
{'week' : [ # 'week' is the string week in format 'W-YYYY'
    {
        'home_name': Name of the home team, such as 'Kansas City
                     Chiefs' (`str`),
        'home_abbr': Abbreviation for the home team, such as 'KAN'
                     (`str`),
        'away_name': Name of the away team, such as 'Houston
                     Texans' (`str`),
        'away_abbr': Abbreviation for the away team, such as 'HOU'
                     (`str`),
        'boxscore': String representing the boxscore URI, such as
                    'SLN/SLN201807280' (`str`),
        'winning_name': Full name of the winning team, such as
                        'Kansas City Chiefs' (`str`),
        'winning_abbr': Abbreviation for the winning team, such as
                        'KAN' (`str`),
        'losing_name': Full name of the losing team, such as
                       'Houston Texans' (`str`),
        'losing_abbr': Abbreviation for the losing team, such as
                       'HOU' (`str`),
        'home_score': Integer score for the home team (`int`),
        'away_score': Integer score for the away team (`int`)
   },
    { ... },
   ]
```

If no games were played on 'week', the list for ['week'] will be empty.

```
sportsreference.nfl.boxscore.nfl_int_property_sub_index(func)
```

## Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career touchdowns to single-season stats and player height, weight, and nationality. The following is an example on collecting career information for Drew Brees.

```
from sportsreference.nfl.roster import Player

brees = Player('BreeDr00')
print(brees.name) # Prints 'Drew Brees'
print(brees.passing_yards) # Prints Brees' career passing yards
# Prints a Pandas DataFrame of all relevant stats per season for Brees
print(brees.dataframe)
```

By default, the player's career stats are returned whenever a property is called. To get stats for a specific team, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.nfl.roster import Player

brees = Player('BreeDr00') # Currently pulling career stats
print(brees.passing_yards) # Prints Brees' CAREER passing yards total
# Prints Brees' passing yards total only for the 2017 season
print(brees('2017').passing_yards)
```

```
# Prints Brees' passing touchdowns for the 2017 season only
print(brees.passing_touchdowns)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.nfl.roster import Player

brees = Player('BreeDr00') # Currently pulling career stats
# Prints Brees' passing yards total only for the 2017 season
print(brees('2017').passing_yards)
print(brees('Career').passing_yards) # Prints Brees' career passing yards
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.nfl.roster import Roster

saints = Roster('NOR')
for player in saints.players:
    # Prints the name of all players who played for the New Orleans Saints
    # in the most recent season.
    print(player.name)
```

```
class sportsreference.nfl.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'BreeDr00' for Drew Brees, capture all relevant stats and information like name, team, height/weight, career starts, single season pasing yards, sacks, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on pro-football-reference.com.

**Parameters player\_id** (string) – A player's ID according to pro-football-reference.com, such as 'BreeDr00' for Drew Brees. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.htm' in the URL. In general, the ID is in the format 'LlllFfNN' where 'Llll' are the first 4 letters in the player's last name with the first letter capitalized, 'Ff' are the first 2 letters in the player's first name where the first letter is capitalized, and 'NN' is a number starting at '00' for the first time that player ID has been used and increments by 1 for every successive player.

# adjusted\_net\_yards\_per\_attempt\_index

Returns an int comparing players by the net average adjusted yards gained per attempt where 100 denotes an average player in this category and higher numbers are better.

### adjusted\_net\_yards\_per\_pass\_attempt

Returns a float of the adjusted net yards gained per pass attempt, equal to (pass\_yards - sack\_yards + (20 \* pass\_touchdowns) - (45 \* interceptions)) / (pass\_attempts + times\_sacked).

## adjusted\_yards\_per\_attempt

Returns a float of the adjusted number of yards gained per passing attempt, equal to (yards + 20 \* pass touchdowns - 45 \* interceptions) / pass attempts.

#### adjusted\_yards\_per\_attempt\_index

Returns an int comparing players by the average adjusted yards gained per attempt where 100 denotes

an average player in this category and higher numbers are better.

### all\_purpose\_yards

Returns an int of the number of all-purpose yards the player has gained from receptions, rushes, and kickoff and punt returns.

### approximate\_value

Returns an int of the player's approximate value which is a singular number used to compare players across seasons and positions, but is only intended to be a rough estimate.

## assists\_on\_tackles

Returns an int of the number of assist the player made on tackles.

#### attempted\_passes

Returns an int of the number of passes the player attempted.

#### birth date

Returns a datetime object of the day and year the player was born.

# blocked\_punts

Returns an int of the number of the player's punts that have been blocked.

# catch\_percentage

Returns a float of the percentage of passes the player caught while being the target of a pass. Percentage ranges from 0-100.

### completed\_passes

Returns an int of the number of completed passes the player threw.

## completion\_percentage\_index

Returns an int comparing players by their passing completion percentage where 100 denotes an average player in this category and higher numbers are better.

## dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

### espn\_qbr

Returns a float of the player's Total Quarterback Rating according to ESPN.

### extra\_point\_percentage

Returns a float of the percentage of extra points the player made. Percentage ranges from 0-100.

# extra\_points\_attempted

Returns an int of the number of extra points the player attempted.

## extra\_points\_made

Returns an int of the number of extra points the player made.

### field\_goal\_percentage

Returns a float of the percentage of field goals the player made. Percentage ranges from 0-100.

## field\_goals\_attempted

Returns an int of the total number of field goals the player attempted from any distance.

### field\_goals\_made

Returns an int of the total number of field goals the player made from any distance.

### fifty\_plus\_yard\_field\_goal\_attempts

Returns an int of the number of field goals the player attempted from fifty or more yards out.

## fifty plus yard field goals made

Returns an int of the number of field goals the player made from fifty or more yards out.

### fourth\_quarter\_comebacks

Returns an int of the number of times the player has lead a team to victory or a tie as a quarterback while the team trailed at the beginning of the fourth quarter by scoring at the end of a drive.

### fourty\_to\_fourty\_nine\_yard\_field\_goal\_attempts

Returns an int of the number of field goals the player attempted from fourty to fourty-nine yards out.

### fourty\_to\_fourty\_nine\_yard\_field\_goals\_made

Returns an int of the number of field goals the player made from fourty to fourty-nine yards out.

## fumbles

Returns an int of the number of times the player fumbled the ball.

#### fumbles\_forced

Returns an int of the number of times the player forced a fumble.

#### fumbles recovered

Returns an int of the number of fumbles the player has recovered.

## fumbles\_recovered\_for\_touchdown

Returns an int of the number of touchdowns the player has scored after recovering a fumble.

#### game\_winning\_drives

Returns an int of the number of times the player has lead a drive that resulted in a score in the fourth quarter while the team was trailing.

### games

Returns an int of the number of games the player participated in.

### games\_started

Returns an int of the number of games the player started.

## height

Returns a string of the player's height in the format "feet-inches".

## interception\_percentage

Returns a float of the percentage of passes the player throws that are intercepted. Percentage ranges from 0-100.

## interception\_percentage\_index

Returns an int comparing players by the percentage of their passes that are intercepted where 100 denotes an average player in this category and higher numbers are better.

# interceptions

Returns an int of the number of times the player intercepted a pass.

## interceptions\_returned\_for\_touchdown

Returns an int of the number of touchdowns the player has scored after intercepting a pass. Commonly referred to as a 'Pick-6'.

# interceptions\_thrown

Returns an int of the number of interceptions the player has thrown.

## kickoff\_return\_touchdown

Returns an int of the number of kickoffs the player returned for a touchdown.

#### kickoff\_return\_yards

Returns an int of the amount of yards the player gained while returning a kickoff.

## kickoff\_returns

Returns an int of the number of kickoffs the player returned.

### less than nineteen yards field goal attempts

Returns an int of the number of field goals the player attempted from nineteen or fewer yards out.

## less\_than\_nineteen\_yards\_field\_goals\_made

Returns an int of the number of field goals the player made from nineteen or fewer yards out.

### longest\_field\_goal\_made

Returns an int of the longest field goal the player made.

### longest interception return

Returns an int of the most yards the player has returned after intercepting a pass.

### longest\_kickoff\_return

Returns an int of the highest number of yards the player has gained while returning a kickoff.

### longest\_pass

Returns an int of the longest completed pass the player threw.

## longest\_punt

Returns an int of the longest punt the player has kicked.

#### longest punt return

Returns an int of the highest number of yards the player has gained while returning a punt.

## longest\_reception

Returns an int of the highest number of yards the player gained as a result of a single reception.

### longest\_rush

Returns an int of the highest number of yards the player gained during a single rushing attempt.

#### name

Returns a string of the player's name, such as 'Drew Brees'.

## net\_yards\_per\_attempt\_index

Returns an int comparing players by the net average yards gained per attempt where 100 denotes an average player in this category and higher numbers are better.

# net\_yards\_per\_pass\_attempt

Returns a float of the net yards gained per pass attempt, equal to (pass\_yards - sack\_yards) / (pass\_attempts + times\_sacked).

### passer\_rating\_index

Returns an int comparing players by their quarterback rating where 100 denotes an average player in this category and higher numbers are better.

### passes defended

Returns an int of the number of passes the player has defended as a defensive player.

#### passing completion

Returns a float of the percentage of passes that were caught by a receiver. Percentage ranges from 0-100.

# passing\_touchdown\_percentage

Returns a float of the percentage of total passes that are touchdowns. Percentage ranges from 0-100.

### passing\_touchdowns

Returns an int of the number of touchdowns passes the player has thrown.

### passing\_yards

Returns an int of the number of yards receivers have gained as a result of the player's passes.

# passing\_yards\_per\_attempt

Returns a float of the number of yards gained per passing attempt.

### player\_id

Returns a string of the player's ID on pro-football-reference, such as 'BreeDr00' for Drew Brees.

## position

Returns a string of the player's primary position.

### punt\_return\_touchdown

Returns an int of the number of punts the player returned for a touchdown.

### punt return yards

Returns an int of the amount of yards the player gained while returning a punt.

### punt\_returns

Returns an int of the number of times a player returned a punt.

#### punts

Returns an int of the number of times the player punted the ball.

### qb\_record

Returns a string of the player's quarterback record as a starter in the format 'W-L-T'.

## quarterback\_rating

Returns a float of the player's quarterback rating.

# receiving\_touchdowns

Returns an int of the number of touchdowns the player scored after receiving a pass.

#### receiving yards

Returns an int of the number of receiving yards the player gained.

# receiving\_yards\_per\_game

Returns a float of the acerage number of receiving yards the player gains per game.

## receiving\_yards\_per\_reception

Returns a float of the average number of yards the player gained per reception.

## receptions

Returns an int of the number of receptions the player made.

## receptions\_per\_game

Returns a float of the average number of receptions the player makes per game.

## rush\_attempts

Returns an int of the number of rushing plays the player attempted.

# rush\_attempts\_per\_game

Returns a float of the average number of rushing attempts the player made per game.

#### rush touchdowns

Returns an int of the number of rushing touchdowns the player scored.

# rush\_yards

Returns an int of the number of rushing yards the player gained.

# rush\_yards\_per\_attempt

Returns a float of the average number of yards gained per rushing attempt.

#### rush\_yards\_per\_game

Returns a float of the average number of rushing yards gained per game.

## rushing\_and\_receiving\_touchdowns

Returns an int of the combined number of rushing and receiving touchdowns the player scored.

### sack percentage

Returns a float of the percentage of times sacked during a passing attempt, equal to times\_sacked / (pass attempts + times sacked). Percentage ranges from 0-100.

### sack\_percentage\_index

Returns an int comparing players by the percentage of plays that end in the player being sacked where 100 denotes an average player in this category and higher numbers are better.

#### sacks

Returns a float of the number of times the player sacked a quarterback.

#### safeties

Returns an int of the number of safeties the player has scored.

#### season

Returns a string of the season in the format 'YYYY', such as '2017'. If no season was requested, the career stats will be returned for the player and the season will default to 'Career'.

#### tackles

Returns an int of the number of tackles the player made.

#### team abbreviation

Returns a string of the team's abbreviation, such as 'NOR' for the New Orleans Saints.

## thirty\_to\_thirty\_nine\_yard\_field\_goal\_attempts

Returns an int of the number of field goals the player attempted from thirty to thirty-nine yards out.

### thirty\_to\_thirty\_nine\_yard\_field\_goals\_made

Returns an int of the number of field goals the player made from thirty to thirty-nine yards out.

### times\_pass\_target

Returns an int of the number of times the player was the target of a pass.

### times\_sacked

Returns an int of the number of times the player was sacked as a quarterback.

## total\_punt\_yards

Returns an int of the total number of yards the player has punted the ball.

## touchdown\_percentage\_index

Returns an int comparing players by the percentage of their passes that result in a touchdown where 100 denotes an average player in this category and higher numbers are better.

### touches

Returns an int of the combined number of rushing attempts and receptions the player had.

## twenty\_to\_twenty\_nine\_yard\_field\_goal\_attempts

Returns an int of the number of field goals the player attempted from twenty to twenty-nine yards out.

### twenty\_to\_twenty\_nine\_yard\_field\_goals\_made

Returns an int of the number of field goals the player made from twenty to twenty-nine yards out.

#### weight

Returns an int of the player's weight in pounds.

### yards\_from\_scrimmage

Returns an int of the total number of yards gained from scrimmage for both rushing and receiving.

### yards\_lost\_to\_sacks

Returns an int of the number of yards lost as a result of sacks.

#### yards\_per\_attempt\_index

Returns an int comparing players by the average number of yards gained per attempt where 100 denotes an average player in this category and higher numbers are better.

### yards\_per\_completed\_pass

Returns a float of the number of yards gained per completed pass.

# yards\_per\_game\_played

Returns a float of the number of passing yards gained per gamed.

## yards\_per\_kickoff\_return

Returns a float of the average number of yards the player returned per kickoff.

#### yards\_per\_punt

Returns a float of the average distance the player punts the ball.

# yards\_per\_punt\_return

Returns a float of the average number of yards the player returned per punt.

#### yards\_per\_touch

Returns a float of the average number of yards gained per rushing attempt and/or reception.

### yards\_recovered\_from\_fumble

Returns an int of the number of yards the player gained after recovering a fumble.

### yards\_returned\_from\_interception

Returns an int of the number of yards the player returned after intercepting a pass.

```
class sportsreference.nfl.roster.Roster(team, year=None)
```

Bases: object

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the player's statistics and information.

## **Parameters**

- team(string) The team's abbreviation, such as 'NOR' for the New Orleans Saints.
- **year** (*string* (*optional*)) The 4-digit year to pull the roster from, such as '2017'. If left blank, defaults to the most recent season.

#### players

Returns a list of player instances for each player on the requested team's roster.

## **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.nfl.schedule import Schedule
houston_schedule = Schedule('HOU')
for game in houston_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
    # Creates an instance of the Boxscore class for the game.
    boxscore = game.boxscore
```

class sportsreference.nfl.schedule.Game(game\_data, game\_type, year)

Bases: object

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

#### **Parameters**

- game\_data (string) The row containing the specified game's information.
- game\_type (string) A constant to denote whether a game took place in the regular season or in the playoffs.
- **year** (string) The year as a 4-digit string. Note that this is the year that the bulk of the season took place. For example the Super Bowl for the 2017 season took place in early Feburary 2018, but 2017 should be passed as that was the year the bulk of the season was played in.

#### boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

#### boxscore\_index

Returns a string of the URI for a boxscore which can be used to access or index a game.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

### dataframe extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the month and day the game was played, such as 'September 7'.

#### datetime

Returns a datetime object representing the date the game was played.

### day

Returns a string of the day of the week the game was played as a 3-letter abbreviation, such as 'Sun' for Sunday.

## extra\_points\_attempted

Returns an int of the number of times the team attempted to convert an extra point after scoring a touchdown.

### extra\_points\_made

Returns an int of the number of extra points the team successfully converted after scoring a touchdown.

# ${\tt field\_goals\_attempted}$

Returns an int of the total number of times the team attempted a field goal.

### field\_goals\_made

Returns an int of the total number of field goals the team scored.

### fourth\_down\_attempts

Returns an int of the total number of fourth downs the team attempted to convert.

## fourth down conversions

Returns an int of the number of fourth downs the team successfully converted.

### interceptions

Returns an int of the number of interceptions the team threw.

#### location

Returns a string constant indicating whether the game was played at home, away, or a neutral site, such as the Super Bowl.

### opponent\_abbr

Returns a string of the opponent's 3-letter abbreviation, such as 'NWE' for the New England Patriots.

### opponent\_name

Returns a string of the opponent's full name, such as the 'New England Patriots'.

### overtime

Returns a boolean value that evaluates to True if the game when to overtime and False if it ended in regulation.

### pass\_attempts

Returns an int of the number of passes the team attempted during the game.

## pass\_completion\_rate

Returns a float of the percentage of passes that were completed by the team. Percentage ranges from 0-100.

## pass\_completions

Returns an int of the number of completed passed by the team.

### pass\_touchdowns

Returns an int of the number of touchdowns the team scored as a result of passing plays.

### pass\_yards

Returns an int of the number of yards the team gained as a result of passing plays.

### pass\_yards\_per\_attempt

Returns a float of the average number of yards gained per passing play.

## points\_allowed

Returns an int of the number of points allowed by the team.

### points\_scored

Returns an int of the number of points scored by the team.

### punt\_yards

Returns an int of the total number of yards the team punted the ball.

### punts

Returns an int of the number of times the team punted the ball.

### quarterback\_rating

Returns a float of the quarterback's rating for the game.

## result

Returns a string constant indicating whether the team won or lost the game.

### rush\_attempts

Returns an int of the total number of times the team attempted a rushing play.

### rush\_touchdowns

Returns an int of the number of touchdowns the team scored as a result of rushing plays.

### rush\_yards

Returns an int of the total number of yards the team gain as a result of rushing plays.

### rush yards per attempt

Returns a float of the average number of yards gained per rushing play.

## third\_down\_attempts

Returns an int of the total number of third downs the team attempted to convert.

### third\_down\_conversions

Returns an int of the number of third downs the team successfully converted.

#### time of possession

Returns a string of the total time the team spent with the ball. Time is in the format 'MM:SS'.

#### times sacked

Returns an int of the number of times the quarterback was sacked by the opponent.

#### type

Returns a string constant indicating whether the game is a regular season or playoff matchup.

#### week

Returns an int of the week number in the season, such as 1 for the first week of the regular season.

### yards lost from sacks

Returns an int of the total number of yards lost as a result of a sack.

```
class sportsreference.nfl.schedule.Schedule(abbreviation, year=None)
    Bases: object
```

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

#### **Parameters**

- abbreviation (string) A team's short name, such as 'NWE' for the New England Patriots
- year (string (optional)) The requested year to pull stats from.

#### dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

# dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

### **Teams**

The Teams module exposes information for all MLB teams including the team name and abbreviation, the number of games they won during the season, the average margin of victory, and much more.

```
from sportsreference.nfl.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    # Prints the team's average margin of victory
    print(team.margin_of_victory)
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.nfl.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.nfl.teams import Teams

for team in Teams():
    roster = team.roster # Gets each team's roster
    for player in roster.players:
        print(player.name) # Prints each players name on the roster
```

```
class sportsreference.nfl.teams.Team(team_data, rank, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as rank, name, and abbreviation, and sets them as properties which can be directly read from for easy reference.

### **Parameters**

- **team\_data** (string) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- rank (int) A team's position in the league based on the number of points they obtained during the season.
- year (string (optional)) The requested year to pull stats from.

### abbreviation

Returns a string of team's abbreviation, such as 'KAN' for the Kansas City Chiefs.

### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'KAN'.

## defensive\_simple\_rating\_system

Returns a float of the team's defensive strength according to the simple rating system. An average team is denoted with 0.0 and a negative score is a comparatively weaker team.

#### first downs

Returns an int of the total number of first downs the team achieved during the season.

### first\_downs\_from\_penalties

Returns an int of the total number of first downs conceded as a result of penalties called on the team.

#### fumbles

Returns an int of the total number of times the team fumbled the ball during the season.

### games\_played

Returns an int of the number of games played during the season.

## interceptions

Returns an int of the total number of interceptions the team has thrown.

### losses

Returns an int of the number of games the team lost during the season.

## margin\_of\_victory

Returns a float of the average margin of victory per game.

#### name

Returns a string of the team's full name, such as 'Kansas City Chiefs'.

### offensive\_simple\_rating\_system

Returns a float of the team's offensive strength according to the simple rating system. An average team is denoted with 0.0 and a negative score is a comparatively weaker team.

#### pass\_attempts

Returns an int of the total number of passes that were attempted.

#### pass\_completions

Returns an int of the total number of passes that were completed.

#### pass first downs

Returns an int of the number of first downs the team gained from passing plays.

### pass\_net\_yards\_per\_attempt

Returns a float of the net yards gained per passing play including sacks.

### pass\_touchdowns

Returns an int of the total number of touchdowns the team has scored from passing.

## pass\_yards

Returns an int of the total number of yards the team gained from passing.

### penalties

Returns an int of the total number of penalties called on the team during the season.

#### percent\_drives\_with\_points

Returns a float of the percentage of drives that result in points for the offense. Percentage ranges from 0-100.

# percent\_drives\_with\_turnovers

Returns a float of the percentage of drives that result in an offensive turnover. Percentage ranges from 0-100.

#### plays

Returns an int of the total number of offensive plays the team has made during the season.

# points\_against

Returns an int of the total number of points allowed during the season.

### points\_contributed\_by\_offense

Returns a float of the number of expected points contributed by the offense.

### points\_difference

Returns an int of the difference between the number of points scored and allowed during the season.

### points\_for

Returns an int of the total number of points scored during the season.

#### rank

Returns an int of the team's rank based on the number of points they scored during the season.

#### roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

### rush\_attempts

Returns an int of the total number of rushing plays that were attempted.

#### rush first downs

Returns an int of the total number of first downs gained from rushing plays.

### rush\_touchdowns

Returns an int of the total number of touchdowns from rushing plays.

#### rush vards

Returns an int of the total number of yards that were gained from rushing plays.

#### rush\_yards\_per\_attempt

Returns a float of the average number of yards gained per rushing play.

#### schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

### simple\_rating\_system

Returns a float of the team's relative strength based on average margin of victory plus strength of schedule. An average team is denoted with 0.0 and a negative score is a comparatively weaker team.

### strength of schedule

Returns a float of the team's strength of schedule. An average difficulty schedule is denoted with a 0.0 and a negative number is comparatively easier than average.

### turnovers

Returns an int of the total number of turnovers the team committed during the season.

## win\_percentage

Returns a float of the number of wins divided by the number of games played. Percentage ranges from 0-1.

### wins

Returns an int of the number of games the team won during the season.

# yards

Returns an int of the total number of yards the team has gained during the season.

## yards\_from\_penalties

Returns an int of the total number of yards surrendered as a result of penalties called on the team.

### yards\_per\_play

Returns a float of the average number of yards gained per play during the season.

# class sportsreference.nfl.teams.Teams(year=None)

Bases: object

A list of all NFL teams and their stats in a given year.

Finds and retrieves a list of all NFL teams from www.pro-football-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters** year (string (optional)) - The requested year to pull stats from.

#### dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

## 1.6.1.6 NHL Package

The NHL package offers multiple modules which can be used to retrieve information and statistics for the National Hockey League, such as team names, season stats, game schedules, and boxscore metrics.

### **Boxscore**

The Boxscore module can be used to grab information from a specific game. Metrics range from number of goals scored to the number of penalty minutes, to the save percentage and much more. The Boxscore can be easily queried by passing a boxscore's URI on sports-reference.com which can be retrieved from the Schedule class (see Schedule module below for more information on retrieving game-specific information).

```
from sportsreference.nhl.boxscore import Boxscore

game_data = Boxscore('201806070VEG')
print(game_data.home_goals) # Prints 3
print(game_data.away_goals) # Prints 4
df = game_data.dataframe # Returns a Pandas DataFrame of game metrics
```

The Boxscore module also contains a Boxscores class which searches for all games played on a particular day and returns a dictionary of matchups between all teams on the requested day. The dictionary includes the names and abbreviations for each matchup as well as the boxscore link if applicable.

```
from datetime import datetime
from sportsreference.nhl.boxscore import Boxscores

games_today = Boxscores(datetime.today())
print(games_today.games) # Prints a dictionary of all matchups for today
```

The Boxscores class also allows the ability to query over a range of dates using a second optional parameter during instantiation of the class. To query a range of dates, enter the start date as the first parameter and the inclusive end date as the second parameter.

```
from datetime import datetime
from sportsreference.nhl.boxscore import Boxscores

# Pulls all games between and including February 4, 2017 and February 5,
# 2017
games = Boxscores(datetime(2017, 2, 4), datetime(2017, 2, 5))
# Prints a dictionary of all results from February 4, 2017 and February 5,
# 2017
print(games.games)
```

```
class sportsreference.nhl.boxscore.Boxscore(uri)
    Bases: object
```

Detailed information about the final statistics for a game.

Stores all relevant information for a game such as the date, time, location, result, and more advanced metrics such as the number of goals scored, the number of points for a player, the amount of power play assists and much more.

**Parameters uri** (string) - The relative link to the boxscore HTML page, such as '201806070VEG'.

### arena

Returns a string of the name of the ballpark where the game was played.

#### attendance

Returns an int of the game's listed attendance.

#### away assists

Returns an int of the number of assists the away team registered.

## away\_even\_strength\_assists

Returns an int of the number of assists the away team registered while at even strength.

### away\_even\_strength\_goals

Returns an int of the number of goals the away team scored at even strength.

## away\_game\_winning\_goals

Returns an int of the number of game winning goals the away team scored.

#### away goals

Returns an int of the number of goals the away team scored.

### away\_penalties\_in\_minutes

Returns an int of the length of time the away team spent in the penalty box.

#### away points

Returns an int of the number of points the away team registered.

## away\_power\_play\_assists

Returns an int of the number of assists the away team registered while on a power play.

### away\_power\_play\_goals

Returns an int of the number of goals the away team scored while on a power play.

# away\_save\_percentage

Returns a float of the percentage of shots the away team saved. Percentage ranges from 0-1.

## away\_saves

Returns an int of the number of saves the away team made.

## away\_shooting\_percentage

Returns a float of the away team's shooting percentage. Percentage ranges from 0-100.

# away\_short\_handed\_assists

Returns an int of the number of assists the away team registered while short handed.

### away\_short\_handed\_goals

Returns an int of the number of goals the away team scored while short handed.

### away\_shots\_on\_goal

Returns an int of the number of shots on goal the away team registered.

## away\_shutout

Returns an int denoting whether or not the away team shutout the home team.

#### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string URI that is used to instantiate the class, such as '201806070VEG'.

## date

Returns a string of the date the game took place.

#### duration

Returns a string of the game's duration in the format 'H - MM'.

### home\_assists

Returns an int of the number of assists the home team registered.

#### home even strength assists

Returns an int of the number of assists the home team registered while at even strength.

#### home even strength goals

Returns an int of the number of goals the home team scored at even strength.

# home\_game\_winning\_goals

Returns an int of the number of game winning goals the home team scored.

#### home\_goals

Returns an int of the number of goals the home team scored.

### home\_penalties\_in\_minutes

Returns an int of the length of time the home team spent in the penalty box.

#### home points

Returns an int of the number of points the home team registered.

### home\_power\_play\_assists

Returns an int of the number of assists the home team registered while on a power play.

### home\_power\_play\_goals

Returns an int of the number of goals the home team scored while on a power play.

### home\_save\_percentage

Returns a float of the percentage of shots the home team saved. Percentage ranges from 0-1.

# home\_saves

Returns an int of the number of saves the home team made.

## home\_shooting\_percentage

Returns a float of the home team's shooting percentage. Percentage ranges from 0-100.

### home\_short\_handed\_assists

Returns an int of the number of assists the home team registered while short handed.

## home\_short\_handed\_goals

Returns an int of the number of goals the home team scored while short handed.

# home\_shots\_on\_goal

Returns an int of the number of shots on goal the home team registered.

#### home shutout

Returns an int denoting whether or not the home team shutout the home team.

# losing\_abbr

Returns a string of the losing team's abbreviation, such as 'WSH' for the Washington Capitals.

## losing\_name

Returns a string of the losing team's name, such as 'Washington Capitals'.

#### playoff\_round

Returns a string denoting which round of the playoffs the game is a part of, such as 'Western First Round', or None if the game was played during the regular season.

## time

Returns a string of the time the game started.

#### winner

Returns a string constant indicating whether the home or away team won.

# winning\_abbr

Returns a string of the winning team's abbreviation, such as 'VEG' for the Vegas Golden Knights.

### winning\_name

Returns a string of the winning team's name, such as 'Vegas Golden Knights'.

```
class sportsreference.nhl.boxscore.Boxscores(date, end_date=None)
    Bases: object
```

Search for NHL games taking place on a particular day.

Retrieve a dictionary which contains a list of all games being played on a particular day. Output includes a link to the boxscore, and the names and abbreviations for both the home teams. If no games are played on a particular day, the list will be empty.

### **Parameters**

- date (datetime object) The date to search for any matches. The month, day, and year are required for the search, but time is not factored into the search.
- end\_date (datetime object) Optionally specify an end date to iterate until. All boxscores starting from the date specified in the 'date' parameter up to and including the boxscores specified in the 'end\_date' parameter will be pulled. If left empty, or if 'end\_date' is prior to 'date', only the games from the day specified in the 'date' parameter will be saved.

### games

Returns a dictionary object representing all of the games played on the requested day. Dictionary is in the following format:

```
{'date' : [ # 'date' is the string date in format 'MM-DD-YYYY'
        'home_name': Name of the home team, such as 'New York
                     Rangers' (`str`),
        'home_abbr': Abbreviation for the home team, such as
                     'NYR' (`str`),
        'away_name': Name of the away team, such as 'Boston Bruins'
                     (`str`),
        'away_abbr': Abbreviation for the away team, such as 'BOS'
                     (`str`),
        'boxscore': String representing the boxscore URI, such as
                    '201702040VAN' (`str`),
        'winning_name': Full name of the winning team, such as
                        'New York Rangers' (`str`),
        'winning_abbr': Abbreviation for the winning team, such as
                        'NYR' (`str`),
        'losing_name': Full name of the losing team, such as
                       'Boston Bruins' (`str`),
        'losing_abbr': Abbreviation for the losing team, such as
                       'BOS' (`str`),
        'home_score': Integer score for the home team (`int`),
        'away_score': Integer score for the away team (`int`)
   },
    { ... },
   1
```

If no games were played on 'date', the list for ['date'] will be empty.

```
sportsreference.nhl.boxscore.nhl_int_property_decorator(func)
```

## Roster

The Roster module contains detailed player information, allowing each player to be queried by their player ID using the Player class which has detailed information ranging from career points totals to single-season stats and player height and weight. The following is an example on collecting career information for Henrik Zetterberg:

```
from sportsreference.nhl.roster import Player

zetterberg = Player('zettehe01')
print(zetterberg.name) # Prints 'Henrik Zetterberg'
print(zetterberg.points) # Prints Zetterberg's career points total
# Prints a Pandas DataFrame of all relevant Zetterberg stats per season
print(zetterberg.dataframe)
```

By default, the player's career stats are returned whenever a property is called. To get stats for a specific season, call the class instance with the season string. All future property requests will return the season-specific stats.

```
from sportsreference.nhl.roster import Player

zetterberg = Player('zettehe01')  # Currently pulling career stats
print(zetterberg.points)  # Prints Zetterberg's CAREER points total
# Prints Zetterberg's points total only for the 2017-18 season.
print(zetterberg('2017-18').points)
# Prints the number of games Zetterberg played in the 2017-18 season.
print(zetterberg.games_played)
```

After requesting single-season stats, the career stats can be requested again by calling the class without arguments or with the 'Career' string passed.

```
from sportsreference.nhl.roster import Player

zetterberg = Player('zettehe01') # Currently pulling career stats
# Prints Zetterberg's points total only for the 2017-18 season.
print(zetterberg('2017-18').points)
print(zetterberg('Career').points) # Prints Zetterberg's career points total
```

In addition, the Roster module also contains the Roster class which can be used to pull all players on a team's roster during a given season and creates instances of the Player class for each team member and adds them to a list to be easily queried.

```
from sportsreference.nhl.roster import Roster

detroit = Roster('DET')
for player in detroit.players:
    # Prints the name of all players who played for Houston in the most
    # recent season.
    print(player.name)
```

```
class sportsreference.nhl.roster.Player(player_id)
    Bases: object
```

Get player information and stats for all seasons.

Given a player ID, such as 'zettehe01' for Henrik Zetterberg, capture all relevant stats and information like name, team, height/weight, career goals, single-season assits, penalty minutes, and much more.

By default, the class instance will return the player's career stats, but single-season stats can be found by calling the instance with the requested season as denoted on sports-reference.com.

**Parameters player\_id** (*string*) – A player's ID according to hockey-reference.com, such as 'zettehe01' for Henrik Zetterberg. The player ID can be found by navigating to the player's stats page and getting the string between the final slash and the '.html' in the URL. In general, the ID is in the format 'Illllffnn' where 'Illll' is the first five letters of the player's last name, 'ff' is the first two letters of the player's first name, and 'nn' is a number starting at '01' for the first time that player ID has been used and increments by 1 for every successive player.

## adjusted\_assists

Returns an int of the adjusted number of goals the player has assisted.

## adjusted\_goals

Returns an int of the adjusted number of goals the player has scored.

## adjusted\_goals\_against\_average

Returns a float of the adjusted goals against average for the player while in goal.

#### adjusted\_goals\_created

Returns an int of the adjusted number of goals the player created.

## adjusted\_points

Returns an int of the adjusted number of points the player has gained.

#### age

Returns an int of the player's age on February 1st of the season.

#### assists

Returns an int of the number of goals the player has assisted.

## average\_time\_on\_ice

Returns a string of the average time the player spends on the ice per game.

## blocks\_at\_even\_strength

Returns an int of the number of shots the player blocks while at even strength.

## corsi\_against

Returns a float of the player's 'Corsi Against' factor at even strength, equal to shots + blocks + misses.

## corsi\_for

Returns a float of the player's 'Corsi For' factor at even strength, equal to shots + blocks + misses.

## corsi\_for\_percentage

Returns a float of the 'Corsi For' percentage, equal to corsi\_for / (corsi\_for + corsi\_against). Percentage ranges from 0-100.

## dataframe

Returns a pandas DataFrame containing all other relevant class properties and values where each index is a different season plus the career stats.

## defensive\_point\_shares

Returns a float of the player's denensive point share, equal to the approximate number of points the player contributed to while on defense.

#### defensive\_zone\_start\_percentage

Returns a float of the percentage of faceoffs that occur in the defensive zone whil the player is on ice. Percentage ranges from 0-100.

## even\_strength\_assists

Returns an int of the number of goals the player has assisted while at even strength.

#### even\_strength\_goals

Returns an int of the number of goals the player has scored at even strength.

## even\_strength\_goals\_allowed

Returns an int of the number of goals the player allowed in goal while at even strength.

## even\_strength\_save\_percentage

Returns a float of the player's save percentage while at even strength.

### even strength shots faced

Returns an int of the number of shots the player has faced while at even strength.

#### faceoff losses

Returns an int of the number of faceoffs the player lost.

### faceoff\_percentage

Returns a float of the percentage of faceoffs the player wins. Percentage ranges from 0-100.

## faceoff\_wins

Returns an int of the number of faceoffs the player won.

## fenwick\_against

Returns an int of the player's 'Fenwick Against' factor at even strength, equal to shots + misses.

## fenwick for

Returns an int of the player's 'Fenwick For' factor at even strength, equal to shots + misses.

#### fenwick\_for\_percentage

Returns a float of the player's 'Fenwick For' percentage, equal to fenwick\_for / (fenwick\_for + fenwick\_against). Percentage ranges from 0-100.

## game\_winning\_goals

Returns an int of the number of game-winning goals the player has scored.

## games\_played

Returns an int of the number of games the player participated in.

## giveaways

Returns an int of the number of times the player gave the puck away to an opponent.

#### goal\_against\_percentage\_relative

Returns an int of the player's goals against average compared to the league average where 100 is an average player and 0 means the player saved every single shot.

## goalie\_point\_shares

Returns a float of the player's point share while in goal.

#### goals

Returns an int of the number of goals the player scored.

## goals\_against

Returns an int of the number of goals the opponent scored on the player while in goal.

## goals\_against\_average

Returns a float of the average number of goals the opponent has scored per game while the player is in goal.

## goals\_against\_on\_ice

Returns an int of the number of times the team has been scored on while the player is on ice.

## goals\_created

Returns an int of the number of goals the player created, equal to (goals + assists \* 0.5) \* team\_goals / (team\_goals + team\_assists \* 0.5).

#### goals for on ice

Returns an int of the number of goals the team has scored while the player is on ice.

## goals\_saved\_above\_average

Returns a float of the number of goals the player saved above the league average.

#### height

Returns a string of the player's height in the format "feet-inches".

#### hits at even strength

Returns an int of the number of hits the player makes while at even strength.

## league

Returns a string of the league the player's team participates in.

#### losses

Returns an int of the number of times the team lost while the player is in goal.

#### minutes

Returns an int of the total number of minutes the player has spent in goal.

#### name

Returns a string of the player's name, such as 'Henrik Zetterberg'.

## offensive\_point\_shares

Returns a float of the player's offensive point share, equal to the approximate number of points the player contributed to while on offense.

## offensive\_zone\_start\_percentage

Returns a float of the percentage of faceoffs that occur in the offensive zone while the player is on ice. Percentage ranges from 0-100.

## pdo

Returns a float of the team's PDO while the player is on ice at even strength, equal to the team's shooting percentage + save percentage. Percentage ranges from 0-100.

## penalties\_in\_minutes

Returns an int of the number of minutes the player has served as a result of penalties.

## player\_id

Returns a string of the player's ID on hockey-reference, such as 'zettehe01' for Henrik Zetterberg.

## plus minus

Returns an int representing the relative presence the player has on the outcome of the game.

## point shares

Returns a float of the player's total point share, equal to the sum of the player's offensive and defensive point share.

### points

Returns an int of the number of points the player has gained.

## power\_play\_assists

Returns an int of the number of goals the player has assisted while on a power play.

## power\_play\_goals

Returns an int of the number of goals the player has scored while on a power play.

## power\_play\_goals\_against\_on\_ice

Returns an int of the total number of power play goals against while the player was on ice.

## power\_play\_goals\_allowed

Returns an int of the number of goals the player allowed in goal while on a power play.

## power\_play\_goals\_for\_on\_ice

Returns an int of the total number of power play goals for while the player was on ice.

## power\_play\_save\_percentage

Returns a float of the player's save percentage while on a power play.

## power\_play\_shots\_faced

Returns an int of the number of shots the player has faced while on a power play.

## quality\_start\_percentage

Returns a float of the percentage of the player's starts that are considered quality starts while in goal. Percentage ranges from 0-1.

## quality\_starts

Returns an int of the number of quality starts the player has had, equal to starting out with an in-game save percentage greater than the player's average save percentage for the year.

## really\_bad\_starts

Returns an int of the number of really bad starts the player has had, equal to starting out with an in-game save percentage less than 85%.

## relative\_corsi\_for\_percentage

Returns a float of the player's relative 'Corsi For' percentage, equal to the difference between the player's on and off-ice Corsi For percentage.

## relative\_fenwick\_for\_percentage

Returns a float of the player's relative 'Fenwick For' percentage, equal to the difference between the player's on and off-ice Fenwick For percentage.

## save\_percentage

Returns a float of the percentage of shots the player has saved. Percentage ranges from 0-1.

## save\_percentage\_on\_ice

Returns an int of the team's save percentage while the player is on ice.

## saves

Returns an int of the number of shots the player has saved while in goal.

#### season

Returns a string of the season in the format 'YYYY-YY', such as '2017-18'. If no season was requested, the career stats will be returned for the player and the season will default to 'Career'.

## shooting\_percentage

Returns a float of the percentage of the player's shots that go in the goal. Percentage ranges from 0-100.

## shooting\_percentage\_on\_ice

Returns a float of the team's shooting percentage while the player is on ice.

#### shootout\_attempts

Returns an int of the number of shootouts the player attempted.

## shootout\_goals

Returns an int of the number of shootout goals the player scored.

#### shootout misses

Returns an int of the number of shootouts the player failed to score.

## shootout\_percentage

Returns a float of the percentage of shootouts the player scores in. Percentage ranges from 0-100.

## short\_handed\_assists

Returns an int of the number of goals the player has assisted while short handed.

#### short handed goals

Returns an int of the number of goals the player has scored while short handed.

## short\_handed\_goals\_allowed

Returns an int of the number of goals the player allowed in goal while short handed.

## short\_handed\_save\_percentage

Returns a float of the player's save percentage while short handed.

#### short handed shots faced

Returns an int of the number of shots the player has faced while short handed.

## shots\_against

Returns an int of the number of shots the opponent took while the player is in goal.

### shots\_on\_goal

Returns an int of the number of shots on goal the player has made.

#### shutouts

Returns an int of the number of shutouts the player has registered while in goal.

#### takeaways

Returns an int of the number of times the player took the puck away from an opponent.

## team abbreviation

Returns a string of the team's abbreviation, such as 'DET' for the Detroit Red Wings.

#### ties\_plus\_overtime\_loss

Returns an int of the number of times the team has either tied or lost in overtime or a shootout while the player is in goal.

## time\_on\_ice

Returns an int of the total time the player has spent on ice in minutes.

## time\_on\_ice\_even\_strength

Returns a float of the amount of time the player spent on ice in minutes while at even strength.

## total\_goals\_against\_on\_ice

Returns an int of the total number of goals against while the player was on ice.

#### total\_goals\_for\_on\_ice

Returns an int of the total number of goals for while the player was on ice.

## total shots

Returns an int of the total number of shots the player has taken.

## weight

Returns an int of the player's weight in pounds.

#### wins

Returns an int of the number of times the team won while the player is in goal.

## class sportsreference.nhl.roster.Roster(team, year=None)

Bases: object

Get stats for all players on a roster.

Request a team's roster for a given season and create instances of the Player class for each player, containing a detailed list of the player's statistics and information.

## **Parameters**

• team(string) - The team's abbreviation, such as 'DET' for the Detroit Red Wings.

• **year** (*string* (*optional*)) – The 6-digit year to pull the roster from, such as '2017-18'. If left blank, defaults to the most recent season.

## players

Returns a list of player instances for each player on the requested team's roster.

## **Schedule**

The Schedule module can be used to iterate over all games in a team's schedule to get game information such as the date, score, result, and more. Each game also has a link to the Boxscore class which has much more detailed information on the game metrics.

```
from sportsreference.nhl.schedule import Schedule

detroit_schedule = Schedule('DET')
for game in detroit_schedule:
    print(game.date) # Prints the date the game was played
    print(game.result) # Prints whether the team won or lost
    # Creates an instance of the Boxscore class for the game.
    boxscore = game.boxscore
```

```
class sportsreference.nhl.schedule.Game(game_data, year)
    Bases: object
```

A representation of a matchup between two teams.

Stores all relevant high-level match information for a game in a team's schedule including date, time, opponent, and result.

#### **Parameters**

- game\_data (string) The row containing the specified game information.
- year (string) The year of the current season.

## boxscore

Returns an instance of the Boxscore class containing more detailed stats on the game.

## boxscore\_index

Returns a string of the URI for a boxscore which can be used to access or index a game.

## corsi\_against

Returns an int of the Corsi Against at Even Strength metric which equals the number of shots + blocks + misses by the opponent.

## corsi\_for

Returns an int of the Corsi For at Even Strength metric which equals the number of shots + blocks + misses.

## corsi for percentage

Returns a float of the percentage of control a team had of the puck which is calculated by the corsi\_for value divided by the sum of corsi\_for and corsi\_against. Values greater than 50.0 indicate the team had more control of the puck than their opponent. Percentage ranges from 0-100.

## dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the boxscore string.

#### dataframe extended

Returns a pandas DataFrame representing the Boxscore class for the game. This property provides much

richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property. The index for the DataFrame is the boxscore string.

#### date

Returns a string of the date the game was played, such as '2017-10-05'.

## datetime

Returns a datetime object to indicate the month, day, and year the game was played at.

#### faceoff losses

Returns an int of the number of faceoffs the team lost at even strength.

## faceoff\_win\_percentage

Returns a float of percentage of faceoffs the team won while at even strength. Percentage ranges from 0-100.

#### faceoff wins

Returns an int of the number of faceoffs the team won at even strength.

## fenwick\_against

Returns an int of the Fenwick Against at Even Strength metric which equals the number of shots + misses by the opponent.

#### fenwick for

Returns an int of the Fenwick For at Even Strength metric which equals the number of shots + misses.

## fenwick\_for\_percentage

Returns a float of the percentage of control a team had of the puck which is calculated by the fenwick\_for value divided by the sum of fenwick\_for and fenwick\_against. Values greater than 50.0 indicate the team had more control of the puck than their opponent. Percentage ranges from 0-100.

#### game

Returns an int to indicate which game in the season was requested. The first game of the season returns 1.

## goals allowed

Returns an int of the number of goals the team allowed during the game.

## goals\_scored

Returns an int of the number of goals the team scored during the game.

## location

Returns a string constant to indicate whether the game was played at home or away.

## offensive\_zone\_start\_percentage

Returns a float of the percentage of stats that took place in the offensive half. Value is calculated by the number of offensive zone starts divided by the sum of offensive zone starts and defensive zone starts. Percentage ranges from 0-100.

## opp\_penalties\_in\_minutes

Returns an int of the total number of minutes the opponent served for penalties.

## opp\_power\_play\_goals

Returns an int of the number of power play goals the opponent scored.

#### opp\_power\_play\_opportunities

Returns an int of the number of power play opportunities the opponent had.

## opp\_short\_handed\_goals

Returns an int of the number of shorthanded goals the opponent scored.

## opp\_shots\_on\_goal

Returns an int of the total number of shots on goal the opponent registered.

#### opponent abbr

Returns a string of the opponent's 3-letter abbreviation, such as 'NYR' for the New York Rangers.

## opponent\_name

Returns a string of the opponent's name, such as 'New York Rangers'.

## overtime

Returns an int of the number of overtimes that were played during the game, or an int constant if the game went to a shootout.

## pdo

Returns a float of the team's PDO at Even Strength metric which is calculated by the sum of the shooting percentage and save percentage. Percentage ranges from 0-100.

## penalties\_in\_minutes

Returns an int of the total number of minutes the team served for penalties.

## power\_play\_goals

Returns an int of the number of power play goals the team scored.

## power\_play\_opportunities

Returns an int of the number of power play opportunities the team had.

#### result

Returns a string constant to indicate whether the team lost in regulation, lost in overtime, or won.

#### short handed goals

Returns an int of the number of shorthanded goals the team scored.

## shots on goal

Returns an int of the total number of shots on goal the team registered.

## **class** sportsreference.nhl.schedule.**Schedule**(abbreviation, year=None)

Bases: object

An object of the given team's schedule.

Generates a team's schedule for the season including wins, losses, and scores if applicable.

## **Parameters**

- **abbreviation** (*string*) A team's short name, such as 'NYR' for the New York Rangers.
- year (string (optional)) The requested year to pull stats from.

#### dataframe

Returns a pandas DataFrame where each row is a representation of the Game class. Rows are indexed by the boxscore string.

### dataframe\_extended

Returns a pandas DataFrame where each row is a representation of the Boxscore class for every game in the schedule. Rows are indexed by the boxscore string. This property provides much richer context for the selected game, but takes longer to process compared to the lighter 'dataframe' property.

#### **Teams**

The Teams module exposes information for all NHL teams including the team name and abbreviation, the number of games they won during the season, the total number of shots on goal, and much more.

```
from sportsreference.nhl.teams import Teams

teams = Teams()
for team in teams:
    print(team.name) # Prints the team's name
    print(team.shots_on_goal) # Prints the team's total shots on goal
```

Each Team instance contains a link to the Schedule class which enables easy iteration over all games for a particular team. A Pandas DataFrame can also be queried to easily grab all stats for all games.

```
from sportsreference.nhl.teams import Teams

teams = Teams()
for team in teams:
    schedule = team.schedule # Returns a Schedule instance for each team
    # Returns a Pandas DataFrame of all metrics for all game Boxscores for
    # a season.
    df = team.schedule.dataframe_extended
```

Lastly, each Team instance also contains a link to the Roster class which enables players from the team to be easily queried. Each Roster instance contains detailed stats and information for each player on the team.

```
from sportsreference.nhl.teams import Teams

teams = Teams()
for team in teams:
    # Creates an instance of the roster class for each player on the team.
    roster = team.roster
    for player in roster.players:
        print(player.name) # Prints the name of each player on the team.
```

```
class sportsreference.nhl.teams.Team(team_data, rank, year=None)
    Bases: object
```

An object containing all of a team's season information.

Finds and parses all team stat information and identifiers, such as rank, name, and abbreviation, and sets them as properties which can be directly read from for easy reference.

## **Parameters**

- **team\_data** (string) A string containing all of the rows of stats for a given team. If multiple tables are being referenced, this will be comprised of multiple rows in a single string.
- rank (int) A team's position in the league based on the number of points they obtained during the season.
- year (string (optional)) The requested year to pull stats from.

## abbreviation

Returns a string of the team's abbreviation, such as 'DET' for the Detroit Red Wings.

## average\_age

Returns a float of the average age of all players on the team, weighted by their time on ice.

### dataframe

Returns a pandas DataFrame containing all other class properties and values. The index for the DataFrame is the string abbreviation of the team, such as 'DET'.

### games\_played

Returns an int of the total number of games the team has played in the season.

## goals\_against

Returns an int of the total number of goals opponents scored against the team during the season.

## goals\_for

Returns an int of the total number of goals a team scored during the season.

#### losses

Returns an int of the total number of losses the team had in the season.

#### name

Returns a string of the team's full name, such as 'Detroit Red Wings'.

#### overtime\_losses

Returns an int of the total number of overtime losses the team had in the season.

## pdo\_at\_even\_strength

Returns a float of the PDO at even strength which equates to the shooting percentage plus the save percentage.

## penalty\_killing\_percentage

Returns a float denoting the percentage of power plays that have been successfully defended without a goal being conceded. Percentage ranges from 0-100.

## points

Returns an int of the total number of points the team gained in the season.

#### points percentage

Returns a float denoting the percentage of points gained divided by the maximum possible points available during the season. Percentage ranges from 0-1.

## power\_play\_goals

Returns an int of the total number of power play goals scored.

## power\_play\_goals\_against

Returns an int of the total number of power play goals conceded.

## power\_play\_opportunities

Returns an int of the total number of power play opportunities for a team during the season.

## power\_play\_opportunities\_against

Returns an int of the total number of power play opportunities for the opponents during the season.

## power\_play\_percentage

Returns a float denoting the percentage of power play opportunities where the team has scored. Percentage ranges from 0-100.

### rank

Returns an int of the team's rank based on the number of points they obtained in the season.

#### roster

Returns an instance of the Roster class containing all players for the team during the season with all career stats.

#### save\_percentage

Returns a float denoting the percentage of shots the team has saved during the season. Percentage ranges from 0-1.

## schedule

Returns an instance of the Schedule class containing the team's complete schedule for the season.

## shooting\_percentage

Returns a float denoting the percentage of shots to goals during the season. Percentage ranges from 0-100.

## short\_handed\_goals

Returns an int of the number of short handed goals the team has scored during the season.

#### short\_handed\_goals\_against

Returns an int of the number of short handed goals the team has conceded during the season.

#### shots against

Returns an int of the total number of shots on goal the team's opponents made during the season.

#### shots\_on\_goal

Returns an int of the total number of shots on goal the team made during the season.

## simple\_rating\_system

Returns a float which takes into account the average goal differential vs a team's strength of schedule. The league average evaluates to 0.0. Teams which have a positive score are comparatively stronger than average while teams with a negative score are weaker.

## strength\_of\_schedule

Returns a float denoting a team's strength of schedule, based on goals scores and conceded. Higher values result in more challenging schedules while 0.0 is an average schedule.

## total\_goals\_per\_game

Returns a float for the average number of goals scored per game.

#### wins

Returns an int of the total number of wins the team had in the season.

## class sportsreference.nhl.teams.Teams(year=None)

Bases: object

A list of all NHL teams and their stats in a given year.

Finds and retrieves a list of all NHL teams from www.hockey-reference.com and creates a Team instance for every team that participated in the league in a given year. The Team class comprises a list of all major stats and a few identifiers for the requested season.

**Parameters** year (string (optional)) – The requested year to pull stats from.

#### dataframes

Returns a pandas DataFrame where each row is a representation of the Team class. Rows are indexed by the team abbreviation.

## 1.6.2 Installation

The easiest way to install *sportsreference* is by downloading the latest released binary from PyPI using PIP. For instructions on installing PIP, visit PyPA.io for detailed steps on installing the package manager for your local environment.

Next, run:

```
pip install sportsreference
```

to download and install the latest official release of *sportsreference* on your machine. You now have the latest stable version of *sportsreference* installed and can begin using it following the examples!

If the bleeding-edge version of *sportsreference* is desired, clone this repository using git and install all of the package requirements with PIP:

```
git clone https://github.com/roclark/sportsreference
cd sportsreference
pip install -r requirements.txt
```

Once complete, create a Python wheel for your default version of Python by running the following command:

```
python setup.py sdist bdist_wheel
```

This will create a .whl file in the dist directory which can be installed with the following command:

```
pip install dist/*.whl
```

## 1.6.3 Testing

Sportsreference contains a testing suite which aims to test all major portions of code for proper functionality. To run the test suite against your environment, ensure all of the requirements are installed by running:

```
pip install -r requirements.txt
```

Next, start the tests by running py.test while optionally including coverage flags which identify the amount of production code covered by the testing framework:

```
py.test --cov=sportsreference --cov-report term-missing tests/
```

If the tests were successful, it will return a green line will show a message at the end of the output similar to the following:

If a test failed, it will show the number of failed and what went wrong within the test output. If that's the case, ensure you have the latest version of code and are in a supported environment. Otherwise, create an issue on GitHub to attempt to get the issue resolved.

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