

# Package ‘ISAR’

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**Type** Package

**Title** Introduction to Sports Analytics using R (ISAR) Data

**Version** 1.0.2

**Maintainer** Ryan Elmore <Ryan.Elmore@du.edu>

**Description** We provide data sets used in the textbook ``Introduction to Sports Analytics using R'' by Elmore and Urbaczewski (2025).

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 3.5)

**RoxygenNote** 7.3.3

**URL** <https://github.com/rtelmore/ISAR>

**BugReports** <https://github.com/rtelmore/ISAR/issues>

**NeedsCompilation** no

**Author** Ryan Elmore [cre, aut]

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## Description

A dataset containing the NHL's Avalanche Roster

**Usage**

```
avs_roster_2021
```

**Format**

A data frame with 28 rows and 8 variables:

**jersey\_number** player jersey number  
**person\_id** player ID  
**person\_full\_name** player full name  
**person\_link** API link to player data  
**position\_code** position abbreviation  
**position\_name** position name  
**position\_type** position type  
**position\_abbreviation** another position abbreviation

**Source**

<https://www.nhl.com/stats/>

---

avs\_roster\_2022      2022-23 *NHL Colorado Avalanche Roster (from NHL's API)*

---

**Description**

A dataset containing the NHL's Avalanche Roster

**Usage**

```
avs_roster_2022
```

**Format**

A data frame with 24 rows and 8 variables:

**jersey\_number** player jersey number  
**person\_id** player ID  
**person\_full\_name** player full name  
**person\_link** API link to player data  
**position\_code** position abbreviation  
**position\_name** position name  
**position\_type** position type  
**position\_abbreviation** another position abbreviation

**Source**

<https://www.nhl.com/stats/>

---

av<sub>s</sub>\_stats\_2021

*NHL's Colorado Avalanche Player Statistics*

---

## Description

A dataset containing the statistics for all Colorado Avalanche players on the 2021-2 roster

## Usage

```
avs_stats_2021
```

## Format

A data frame with 196 rows and 50 variables:

**person\_id** NHL API Player ID  
**person\_full\_name** Player full name  
**season** Season  
**season\_start** Season start  
**stat\_assists** Assists  
**stat\_goals** Goals  
**stat\_pim** Penalty minutes  
**stat\_games** Games played  
**stat\_penalty\_minutes** Penalty minutes  
**stat\_plus\_minus** Plus-minus value  
**stat\_points** Points  
**stat\_power\_play\_goals** Power play goals  
**stat\_game\_winning\_goals** Game winning goals  
**stat\_short\_handed\_goals** Short handed goals  
**stat\_shots** Shots  
**stat\_shot\_pct** Shot percentage  
**stat\_time\_on\_ice** Time on ice  
**stat\_hits** Hits  
**stat\_power\_play\_points** Power play points  
**stat\_power\_play\_time\_on\_ice** Power play time on ice  
**stat\_even\_time\_on\_ice** Even play time on ice  
**stat\_face\_off\_pct** Face off percentage  
**stat\_over\_time\_goals** Overtime goals  
**stat\_short\_handed\_points** Short handed points  
**stat\_short\_handed\_time\_on\_ice** Short handed time on ice

**stat\_blocked** Blocks  
**stat\_shifts** Shifts  
**stat\_save\_percentage** Save percentage  
**stat\_goal\_against\_average** Goals against average  
**stat\_ot** OT  
**stat\_shutouts** Shutouts  
**stat\_ties** Ties  
**stat\_wins** Wins  
**stat\_losses** Losses  
**stat\_saves** Saves  
**stat\_power\_play\_saves** Power play saves  
**stat\_short\_handed\_saves** Short handed saves  
**stat\_even\_saves** Even play saves  
**stat\_short\_handed\_shots** Short handed shots  
**stat\_even\_shots** Even play shots  
**stat\_power\_play\_shots** Power play shots  
**stat\_games\_started** Games started  
**stat\_shots\_against** Shots against  
**stat\_goals\_against** Goals against  
**stat\_power\_play\_save\_percentage** Power play save percentage  
**stat\_short\_handed\_save\_percentage** Short handed save percentage  
**stat\_even\_strength\_save\_percentage** Even strength save percentage  
**team\_name** Team name  
**team\_link** Team link  
**team\_id** Team ID

## Source

<https://www.nhl.com/stats/>

---

avs\_stats\_2022      *NHL's Colorado Avalanche Player Statistics*

---

### Description

A dataset containing the statistics for all Colorado Avalanche players on the 2022-23 roster

### Usage

```
avs_stats_2022
```

### Format

A data frame with 162 rows and 50 variables:

**person\_id** NHL API Player ID  
**person\_full\_name** Player full name  
**season** Season  
**season\_start** Season start  
**stat\_assists** Assists  
**stat\_goals** Goals  
**stat\_pim** Penalty minutes  
**stat\_games** Games played  
**stat\_penalty\_minutes** Penalty minutes  
**stat\_plus\_minus** Plus-minus value  
**stat\_points** Points  
**stat\_power\_play\_goals** Power play goals  
**stat\_game\_winning\_goals** Game winning goals  
**stat\_short\_handed\_goals** Short handed goals  
**stat\_shots** Shots  
**stat\_shot\_pct** Shot percentage  
**stat\_time\_on\_ice** Time on ice  
**stat\_hits** Hits  
**stat\_power\_play\_points** Power play points  
**stat\_power\_play\_time\_on\_ice** Power play time on ice  
**stat\_even\_time\_on\_ice** Even play time on ice  
**stat\_face\_off\_pct** Face off percentage  
**stat\_over\_time\_goals** Overtime goals  
**stat\_short\_handed\_points** Short handed points  
**stat\_short\_handed\_time\_on\_ice** Short handed time on ice

**stat\_blocked** Blocks  
**stat\_shifts** Shifts  
**stat\_save\_percentage** Save percentage  
**stat\_goal\_against\_average** Goals against average  
**stat\_ot** OT  
**stat\_shutouts** Shutouts  
**stat\_ties** Ties  
**stat\_wins** Wins  
**stat\_losses** Losses  
**stat\_saves** Saves  
**stat\_power\_play\_saves** Power play saves  
**stat\_short\_handed\_saves** Short handed saves  
**stat\_even\_saves** Even play saves  
**stat\_short\_handed\_shots** Short handed shots  
**stat\_even\_shots** Even play shots  
**stat\_power\_play\_shots** Power play shots  
**stat\_games\_started** Games started  
**stat\_shots\_against** Shots against  
**stat\_goals\_against** Goals against  
**stat\_power\_play\_save\_percentage** Power play save percentage  
**stat\_short\_handed\_save\_percentage** Short handed save percentage  
**stat\_even\_strength\_save\_percentage** Even strength save percentage  
**team\_name** Team name  
**team\_link** Team link  
**team\_id** Team ID

## Source

<https://www.nhl.com/stats/>

dk\_edm\_col

*Draftkings Showdown Game in NHL (Edmonton Oilers versus Colorado Avalanche)***Description**

A dataset containing the Draftkings salary information for Game 1 of the 2022 NHL Playoffs between the Edmonton Oilers versus Colorado Avalanche.

**Usage**

dk\_edm\_col

**Format**

A data frame with 68 rows and 9 variables:

**position** real-life roster position of the player  
**name\_id** player name and Draftkings ID  
**name** player name  
**id** Draftkings player ID  
**roster\_position** Draftkings roster position  
**salary** player salary  
**game\_info** game information for the players  
**team\_abbrev** player team as an abbreviation  
**avg\_points\_per\_game** player average Draftkings points per game

**Source**

[Draftkings Contest Page](#)

dk\_lac\_dal

*Draftkings Showdown Game (Clippers vs. Mavericks)***Description**

A dataset containing the Draftkings salary information for Game 3 of the 2021 NBA Playoffs between the Los Angeles Clippers and the Dallas Mavericks.

**Usage**

dk\_lac\_dal

## Format

A data frame with 68 rows and 9 variables:

**position** real-life roster position of the player  
**name\_id** player name and Draftkings ID  
**name** player name  
**id** Draftkings player ID  
**roster\_position** Draftkings roster position  
**salary** player salary  
**game\_info** game information for the players  
**team\_abbrev** player team as an abbreviation  
**avg\_points\_per\_game** player average Draftkings points per game

## Source

Draftkings Contest Page

---

dk\_mem\_utah

*Draftkings Showdown Game (Grizzlies vs. Jazz)*

---

## Description

A dataset containing the Draftkings salary information for Game 4 of the 2021 NBA Playoffs between the Memphis Grizzlies and Utah Jazz.

## Usage

dk\_mem\_utah

## Format

A data frame with 68 rows and 9 variables:

**position** real-life roster position of the player  
**name\_id** player name and Draftkings ID  
**name** player name  
**id** Draftkings player ID  
**roster\_position** Draftkings roster position  
**salary** player salary  
**game\_info** game information for the players  
**team\_abbrev** player team as an abbreviation  
**avg\_points\_per\_game** player average Draftkings points per game

## Source

Draftkings Contest Page

dk\_nyr\_car

*Draftkings Showdown Game in NHL (New York Rangers versus Carolina Hurricanes)***Description**

A dataset containing the Draftkings salary information for Game 7 of the 2022 NHL Playoffs between the New York Rangers and Carolina Hurricanes.

**Usage**

dk\_nyr\_car

**Format**

A data frame with 68 rows and 9 variables:

**position** real-life roster position of the player  
**name\_id** player name and Draftkings ID  
**name** player name  
**id** Draftkings player ID  
**roster\_position** Draftkings roster position  
**salary** player salary  
**game\_info** game information for the players  
**team\_abbrev** player team as an abbreviation  
**avg\_points\_per\_game** player average Draftkings points per game

**Source**

[Draftkings Contest Page](#)

epl\_gk\_stats\_2022

*2021-2022 English Premier League Goalkeeper Statistics***Description**

A dataset containing individual goalkeeper statistics for the English Premier League's 2021 - 2022 season

**Usage**

epl\_gk\_stats\_2022

## Format

A data frame with 314 rows and 13 variables:

**player** Player name  
**nation** Player home country  
**pos** Player position  
**squad** Player team  
**age** Age of player  
**born** Birth year of player  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored against player  
**pk\_allowed** Penalty kick goals scored against player  
**free\_kick\_goals** Free kick goals scored against player  
**corner\_kick\_goals** Corner kick goals scored against player  
**own\_goals\_against** Own goals scored against player  
**post\_shot\_xG** Post-shot expected goals  
**post\_shot\_xG\_per\_shot\_on\_target** Post-shot expected goals per shot on target  
**post\_shot\_xG\_minus\_goals** Post-shot expected goals minus goals per shot on target  
**post\_shot\_xG\_minus\_goals\_p90** Post-shot expected goals minus goals per shot on target per ninety minutes  
**launch\_completed** Passes longer than 40 yards (launch) completed  
**launch\_attempt** Passes longer than 40 yards attempted  
**launch\_completion\_percent** Passes longer than 40 yards (launch) completion percentage  
**pass\_attempt** Passes attempted  
**throw\_attempt** Throws attempted  
**pass\_launch\_percent** Percentage of passes launched  
**avg\_pass\_len** Average pass length  
**goal\_kick\_attempt** Goal kick attempts  
**gk\_launch\_percent** Percentage of goals kicks launched  
**avg\_gk\_len** Average goal kick length  
**crosses\_faced** Number of crosses faced  
**crosses\_stopped** Number of crosses stopped  
**stop\_percent** Cross stop percentage  
**def\_actions\_out\_pen\_area** Defensive actions outside the penalty area  
**def\_actions\_out\_pen\_area\_p90** Defensive actions outside the penalty area per ninety minutes  
**avg\_dist\_def\_actions** Average distance from goal of defensive actions

## Source

<https://fbref.com/en/comps/9/2021-2022/keepersadv/2021-2022-Premier-League-Stats>

## Description

A dataset containing individual goalkeeper statistics for the English Premier League's 2022 - 2023 season

## Usage

```
epl_gk_stats_2023
```

## Format

A data frame with 39 rows and 35 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player  
**born** Birth year of player  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored against player  
**pk\_allowed** Penalty kick goals scored against player  
**free\_kick\_goals** Free kick goals scored against player  
**corner\_kick\_goals** Corner kick goals scored against player  
**own\_goals\_against** Own goals scored against player  
**post\_shot\_xG** Post-shot expected goals  
**post\_shot\_xG\_per\_shot\_on\_target** Post-shot expected goals per shot on target  
**post\_shot\_xG\_minus\_goals** Post-shot expected goals minus goals per shot on target  
**post\_shot\_xG\_minus\_goals\_p90** Post-shot expected goals minus goals per shot on target per ninety minutes  
**launch\_completed** Passes longer than 40 yards (launch) completed  
**launch\_attempt** Passes longer than 40 yards attempted  
**launch\_completion\_percent** Passes longer than 40 yards (launch) completion percentage  
**pass\_attempt** Passes attempted  
**throw\_attempt** Throws attempted

**pass\_launch\_percent** Percentage of passes launched  
**avg\_pass\_len** Average pass length  
**goal\_kick\_attempt** Goal kick attempts  
**gk\_launch\_percent** Percentage of goals kicks launched  
**avg\_gk\_len** Average goal kick length  
**crosses\_faced** Number of crosses faced  
**crosses\_stopped** Number of crosses stopped  
**stop\_percent** Cross stop percentage  
**def\_actions\_out\_pen\_area** Defensive actions outside the penalty area  
**def\_actions\_out\_pen\_area\_p90** Defensive actions outside the penalty area per ninety minutes  
**avg\_dist\_def\_actions** Average distance from goal of defensive actions  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

epl\_gk\_stats\_2024      2023-2024 English Premier League Goalkeeper Statistics

---

## Description

A dataset containing individual goalkeeper statistics for the English Premier League's 2023 - 2024 season

## Usage

`epl_gk_stats_2024`

## Format

A data frame with 39 rows and 35 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player  
**born** Birth year of player  
**min\_p90** Total minutes played in the season per ninety minutes

**goals** Goals scored against player  
**pk\_allowed** Penalty kick goals scored against player  
**free\_kick\_goals** Free kick goals scored against player  
**corner\_kick\_goals** Corner kick goals scored against player  
**own\_goals\_against** Own goals scored against player  
**post\_shot\_xG** Post-shot expected goals  
**post\_shot\_xG\_per\_shot\_on\_target** Post-shot expected goals per shot on target  
**post\_shot\_xG\_minus\_goals** Post-shot expected goals minus goals per shot on target  
**post\_shot\_xG\_minus\_goals\_p90** Post-shot expected goals minus goals per shot on target per ninety minutes  
**launch\_completed** Passes longer than 40 yards (launch) completed  
**launch\_attempt** Passes longer than 40 yards attempted  
**launch\_completion\_percent** Passes longer than 40 yards (launch) completion percentage  
**pass\_attempt** Passes attempted  
**throw\_attempt** Throws attempted  
**pass\_launch\_percent** Percentage of passes launched  
**avg\_pass\_len** Average pass length  
**goal\_kick\_attempt** Goal kick attempts  
**gk\_launch\_percent** Percentage of goals kicks launched  
**avg\_gk\_len** Average goal kick length  
**crosses\_faced** Number of crosses faced  
**crosses\_stopped** Number of crosses stopped  
**stop\_percent** Cross stop percentage  
**def\_actions\_out\_pen\_area** Defensive actions outside the penalty area  
**def\_actions\_out\_pen\_area\_p90** Defensive actions outside the penalty area per ninety minutes  
**avg\_dist\_def\_actions** Average distance from goal of defensive actions  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

## Description

A dataset containing individual goalkeeper statistics for the English Premier League's 2024 - 2025 season

## Usage

```
epl_gk_stats_2025
```

## Format

A data frame with 44 rows and 35 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player  
**born** Birth year of player  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored against player  
**pk\_allowed** Penalty kick goals scored against player  
**free\_kick\_goals** Free kick goals scored against player  
**corner\_kick\_goals** Corner kick goals scored against player  
**own\_goals\_against** Own goals scored against player  
**post\_shot\_xG** Post-shot expected goals  
**post\_shot\_xG\_per\_shot\_on\_target** Post-shot expected goals per shot on target  
**post\_shot\_xG\_minus\_goals** Post-shot expected goals minus goals per shot on target  
**post\_shot\_xG\_minus\_goals\_p90** Post-shot expected goals minus goals per shot on target per ninety minutes  
**launch\_completed** Passes longer than 40 yards (launch) completed  
**launch\_attempt** Passes longer than 40 yards attempted  
**launch\_completion\_percent** Passes longer than 40 yards (launch) completion percentage  
**pass\_attempt** Passes attempted  
**throw\_attempt** Throws attempted

**pass\_launch\_percent** Percentage of passes launched  
**avg\_pass\_len** Average pass length  
**goal\_kick\_attempt** Goal kick attempts  
**gk\_launch\_percent** Percentage of goals kicks launched  
**avg\_gk\_len** Average goal kick length  
**crosses\_faced** Number of crosses faced  
**crosses\_stopped** Number of crosses stopped  
**stop\_percent** Cross stop percentage  
**def\_actions\_out\_pen\_area** Defensive actions outside the penalty area  
**def\_actions\_out\_pen\_area\_p90** Defensive actions outside the penalty area per ninety minutes  
**avg\_dist\_def\_actions** Average distance from goal of defensive actions  
**url** URL of player stats on fbref.com

### Source

From fbref.com via the worldfootballR package

---

epl\_player\_stats\_2022 2021-2022 English Premier League Player Statistics

---

### Description

A dataset containing individual player statistics for the English Premier League's 2021 - 2022 season

### Usage

`epl_player_stats_2022`

### Format

A data frame with 545 rows and 35 variables:

**player** Player name  
**nation** Player home country  
**pos** Player position  
**squad** Player team  
**age** Age of player  
**born** Birth year of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season

**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored by player  
**assists** Assists by player  
**goals\_assists** Goals scored plus assists by player  
**non\_pen\_goals** Non-penalty goals scored by player  
**pen\_goals** Penalty kick goals scored by player  
**pen\_att** Penalty kick attempts by player  
**yellow\_cards** Yellow cards earned by player  
**red\_cards** Red cards earned by player  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**prg\_reception** Progressive passes received  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes

## Source

<https://fbref.com/en/comps/9/2021-2022/stats/2021-2022-Premier-League-Stats>

---

*epl\_player\_stats\_2023 2022-2023 English Premier League Player Statistics*

---

**Description**

A dataset containing individual player statistics for the English Premier League's 2022 - 2023 season

**Usage**

```
epl_player_stats_2023
```

**Format**

A data frame with 569 rows and 38 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player  
**born** Birth year of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored by player  
**assists** Assists by player  
**goals\_assists** Goals scored plus assists by player  
**non\_pen\_goals** Non-penalty goals scored by player  
**pen\_goals** Penalty kick goals scored by player  
**pen\_att** Penalty kick attempts by player  
**yellow\_cards** Yellow cards earned by player  
**red\_cards** Red cards earned by player  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists

**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**prg\_reception** Progressive passes received  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

epl\_player\_stats\_2024 2023-2024 English Premier League Player Statistics

---

## Description

A dataset containing individual player statistics for the English Premier League's 2023 - 2024 season

## Usage

epl\_player\_stats\_2024

## Format

A data frame with 580 rows and 38 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player

**born** Birth year of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored by player  
**assists** Assists by player  
**goals\_assists** Goals scored plus assists by player  
**non\_pen\_goals** Non-penalty goals scored by player  
**pen\_goals** Penalty kick goals scored by player  
**pen\_att** Penalty kick attempts by player  
**yellow\_cards** Yellow cards earned by player  
**red\_cards** Red cards earned by player  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**prg\_reception** Progressive passes received  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

*epl\_player\_stats\_2025 2024-2025 English Premier League Player Statistics*

---

**Description**

A dataset containing individual player statistics for the English Premier League's 2024 - 2025 season

**Usage**

```
epl_player_stats_2025
```

**Format**

A data frame with 574 rows and 38 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**player** Player name  
**nation** Player home country  
**pos** Player position  
**age** Age of player  
**born** Birth year of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season  
**min\_p90** Total minutes played in the season per ninety minutes  
**goals** Goals scored by player  
**assists** Assists by player  
**goals\_assists** Goals scored plus assists by player  
**non\_pen\_goals** Non-penalty goals scored by player  
**pen\_goals** Penalty kick goals scored by player  
**pen\_att** Penalty kick attempts by player  
**yellow\_cards** Yellow cards earned by player  
**red\_cards** Red cards earned by player  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists

**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**prg\_reception** Progressive passes received  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

epl\_team\_stats

*2017-18 through 2021-22 English Premier League Team Statistics*

---

## Description

A dataset containing team statistics for the English Premier League

## Usage

`epl_team_stats`

## Format

A data frame with 100 rows and 29 variables:

**squad** Team or club name  
**season** Season  
**num\_players** Number of players used in the season  
**age** Age of players weighted by minutes played  
**poss** Possession as a percentage of passes attempted  
**goals** Goals scored by team  
**assists** Assists by team  
**goals\_assists** Goals scored plus assists by team

**non\_pen\_goals** Non-penalty goals scored by team  
**pen\_goals** Penalty kick goals scored by team  
**pen\_att** Penalty kick attempts by team  
**yellow\_cards** Yellow cards earned by team  
**red\_cards** Red cards earned by team  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes

## Source

<https://fbref.com/en/comps/9/2021-2022/stats/2021-2022-Premier-League-Stats>

---

epl\_team\_stats\_2023      2022-23 *English Premier League Team Statistics*

---

## Description

A dataset containing team statistics for the English Premier League 2022-23

## Usage

epl\_team\_stats\_2023

## Format

A data frame with 20 rows and 31 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**num\_players** Number of players used in the season  
**age** Age of players weighted by minutes played  
**poss** Possession as a percentage of passes attempted  
**goals** Goals scored by team  
**assists** Assists by team  
**goals\_assists** Goals scored plus assists by team  
**non\_pen\_goals** Non-penalty goals scored by team  
**pen\_goals** Penalty kick goals scored by team  
**pen\_att** Penalty kick attempts by team  
**yellow\_cards** Yellow cards earned by team  
**red\_cards** Red cards earned by team  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

epl\_team\_stats\_2024 2023-24 English Premier League Team Statistics

---

### Description

A dataset containing team statistics for the English Premier League 2023-24

### Usage

```
epl_team_stats_2024
```

### Format

A data frame with 20 rows and 31 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**num\_players** Number of players used in the season  
**age** Age of players weighted by minutes played  
**poss** Possession as a percentage of passes attempted  
**goals** Goals scored by team  
**assists** Assists by team  
**goals\_assists** Goals scored plus assists by team  
**non\_pen\_goals** Non-penalty goals scored by team  
**pen\_goals** Penalty kick goals scored by team  
**pen\_att** Penalty kick attempts by team  
**yellow\_cards** Yellow cards earned by team  
**red\_cards** Red cards earned by team  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals  
**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes

**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

epl\_team\_stats\_2025    2024-25 English Premier League Team Statistics

---

## Description

A dataset containing team statistics for the English Premier League 2024-25

## Usage

`epl_team_stats_2025`

## Format

A data frame with 20 rows and 31 variables:

**season\_end\_year** Calendar year when season ended  
**squad** Player team  
**comp** League (Premier League)  
**num\_players** Number of players used in the season  
**age** Age of players weighted by minutes played  
**poss** Possession as a percentage of passes attempted  
**goals** Goals scored by team  
**assists** Assists by team  
**goals\_assists** Goals scored plus assists by team  
**non\_pen\_goals** Non-penalty goals scored by team  
**pen\_goals** Penalty kick goals scored by team  
**pen\_att** Penalty kick attempts by team  
**yellow\_cards** Yellow cards earned by team  
**red\_cards** Red cards earned by team  
**xG** Expected goals  
**non\_pen\_xG** Non-penalty kick expected goals

**xA** Expected assists  
**non\_pen\_xGxA** Non-penalty kick expected goals and assists  
**prg\_carry** Progressive carries  
**prg\_pass** Progressive passes  
**goals\_p90** Goals per ninety minutes  
**assists\_p90** Assists per ninety minutes  
**goals\_assists\_p90** Goals and assists per ninety minutes  
**non\_pen\_goals\_p90** Non-penalty kick goals per ninety minutes  
**non\_pen\_goals\_assists\_p90** Non-penalty kick goals and assists per ninety minutes  
**xG\_p90** Expected goals per ninety minutes  
**xA\_p90** Expected assists per ninety minutes  
**xG\_xA\_p90** Expected goals plus assists per ninety minutes  
**non\_pen\_xG\_p90** Expected goals minus penalty goals per ninety minutes  
**non\_pen\_xG\_xA\_p90** Expected goals plus assists minus penalty goals per ninety minutes  
**url** URL of player stats on fbref.com

## Source

From fbref.com via the worldfootballR package

---

masters *2019 Masters Tournament Scores*

## Description

A dataset containing the scores from the 2019 Masters Golf Tournament.

## Usage

masters

## Format

A data frame with 87 rows and 9 variables:

**pos** finishing position for a player  
**player\_name** name of the golfer  
**nationality** nationality of the golfer  
**score** final score relative to par  
**round\_1** number of strokes from t  
**round\_2** number of strokes from t  
**round\_3** number of strokes from t  
**round\_4** number of strokes from t  
**total** total strokes from all rounds

**Source**

<https://www.sportingnews.com/us/golf/news/masters-leaderboard-2019-live-scores-results-sunday/n1j77sci339r1f60hm3e1ei17>

---

nba\_adv\_team\_2021      *2021 NBA Advanced Statistics (Team) for the 2020-21 Season*

---

**Description**

A dataset containing the NBA Four Factor table on nba.com

**Usage**

nba\_adv\_team\_2021

**Format**

A data frame with 2160 rows and 29 variables:

**idGame** Game ID on nba.com  
**slugTeam** Team abbreviation  
**idTeam** Team ID on nba.com  
**pctAST** Assist percentage  
**pctOREB** Offensive rebound percentage  
**pctDREB** Defensive rebound percentage  
**pctTREB** Total rebound percentage  
**pctTOVE** Turnover percentage (one)  
**pctTOVTeam** Turnover percentage (two)  
**pctEFG** Effective field goal percentage  
**pctTS** True Shooting percentage  
**pctUSG** Usage metric  
**pctUSGE** Usage percentage  
**teamName** Team Mascot  
**cityTeam** City of slugTeam  
**minExact** Total minutes played  
**ortgE** offensive rating (effective ?)  
**ortg** offensive rating  
**drtgE** defensive rating (effective ?)  
**drtg** defensive rating  
**netrtgE** net rating (effective ?)

**netrtg** net rating  
**ratioASTtoTOV** Assists to turnover ratio  
**ratioAST** Assist ratio  
**paceE** pace (effective ?)  
**pace** pace  
**pacePer40PACE\_PER40** pace per forty minutes  
**possessions** team possessions in game  
**ratioPIE** Player impact estimate

### Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_adv\_team\_2023      *NBA Advanced Statistics (Team) for the 2022-23 Season*

---

### Description

A dataset containing the NBA Four Factor table on nba.com

### Usage

`nba_adv_team_2023`

### Format

A data frame with 2460 rows and 29 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name  
**team\_abbreviation** Team abbreviation  
**team\_city** Team city  
**min** Total minutes in the game  
**e\_off\_rating** offensive rating (effective ?)  
**off\_rating** offensive rating  
**e\_def\_rating** defensive rating (effective ?)  
**def\_rating** defensive rating  
**e\_net\_rating** net rating (effective ?)  
**net\_rating** net rating  
**ast\_pct** Assist percentage  
**ast\_tov** Assists to turnover ratio

**ast\_ratio** Assist ratio  
**oreb\_pct** Offensive rebound percentage  
**dreb\_pct** Defensive rebound percentage  
**reb\_pct** Total rebound percentage  
**e\_tm\_tov\_pct** Turnover percentage (effective?)  
**tm\_tov\_pct** Turnover percentage  
**efg\_pct** Effective field goal percentage  
**ts\_pct** True Shooting percentage  
**usg\_pct** Usage percentage  
**e\_usg\_pct** Usage percentage (effective?)  
**e\_pace** pace (effective ?)  
**pace** pace  
**pace\_per40** pace per forty minutes  
**poss** team possessions in game  
**pie** Player impact estimate

### Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_adv\_team\_2024      *NBA Advanced Statistics (Team) for the 2023-24 Season*

---

### Description

A dataset containing the NBA Four Factor table on nba.com

### Usage

nba\_adv\_team\_2024

### Format

A data frame with 2460 rows and 29 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name  
**team\_abbreviation** Team abbreviation  
**team\_city** Team city  
**min** Total minutes in the game  
**e\_off\_rating** offensive rating (effective ?)

**off\_rating** offensive rating  
**e\_def\_rating** defensive rating (effective ?)  
**def\_rating** defensive rating  
**e\_net\_rating** net rating (effective ?)  
**net\_rating** net rating  
**ast\_pct** Assist percentage  
**ast\_tov** Assists to turnover ratio  
**ast\_ratio** Assist ratio  
**oreb\_pct** Offensive rebound percentage  
**dreb\_pct** Defensive rebound percentage  
**reb\_pct** Total rebound percentage  
**e\_tm\_tov\_pct** Turnover percentage (effective?)  
**tm\_tov\_pct** Turnover percentage  
**efg\_pct** Effective field goal percentage  
**ts\_pct** True Shooting percentage  
**usg\_pct** Usage percentage  
**e\_usg\_pct** Usage percentage (effective?)  
**e\_pace** pace (effective ?)  
**pace** pace  
**pace\_per40** pace per forty minutes  
**poss** team possessions in game  
**pie** Player impact estimate

## Source

[http://asbc11c.com/nbastatR/reference/box\\_scores.html](http://asbc11c.com/nbastatR/reference/box_scores.html)

---

## Description

A dataset containing the NBA Four Factor table on nba.com

## Usage

nba\_adv\_team\_2025

## Format

A data frame with 2460 rows and 29 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name  
**team\_abbreviation** Team abbreviation  
**team\_city** Team city  
**min** Total minutes in the game  
**e\_off\_rating** offensive rating (effective ?)  
**off\_rating** offensive rating  
**e\_def\_rating** defensive rating (effective ?)  
**def\_rating** defensive rating  
**e\_net\_rating** net rating (effective ?)  
**net\_rating** net rating  
**ast\_pct** Assist percentage  
**ast\_tov** Assists to turnover ratio  
**ast\_ratio** Assist ratio  
**oreb\_pct** Offensive rebound percentage  
**dreb\_pct** Defensive rebound percentage  
**reb\_pct** Total rebound percentage  
**e\_tm\_tov\_pct** Turnover percentage (effective?)  
**tm\_tov\_pct** Turnover percentage  
**efg\_pct** Effective field goal percentage  
**ts\_pct** True Shooting percentage  
**usg\_pct** Usage percentage  
**e\_usg\_pct** Usage percentage (effective?)  
**e\_pace** pace (effective ?)  
**pace** pace  
**pace\_per40** pace per forty minutes  
**poss** team possessions in game  
**pie** Player impact estimate

## Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_ff\_team\_2021

*2021 NBA Four Factors (Team) for the 2020-21 Season*

---

### Description

A dataset containing the NBA Four Factor table on nba.com

### Usage

`nba_ff_team_2021`

### Format

A data frame with 2160 rows and 11 variables:

**idGame** Game ID on nba.com  
**slugTeam** Team abbreviation  
**idTeam** Team ID on nba.com  
**pctEFGOpponent** Effective field goal percentage of opponent  
**pctTOVOpponent** Turnover percentage of opponent  
**pctOREBOpponent** Offensive rebound percentage of opponent  
**teamName** Team Mascot  
**cityTeam** City of slugTeam  
**minExact** Total minutes played  
**rateFTA** Free throw rate of slugTeam  
**rateFTAOpponent** Free throw rate of opponent

### Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_ff\_team\_2023

*NBA Four Factors (Team) for the 2022-23 Season*

---

### Description

A dataset containing the NBA Four Factor table on nba.com

### Usage

`nba_ff_team_2023`

## Format

A data frame with 2460 rows and 14 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name on nba.com  
**team\_abbreviation** Team abbreviation on nba.com  
**team\_city** Team city  
**min** Minutes in the game  
**efg\_pct** Effective field goal percentage  
**fta\_rate** Free throw rate of team  
**tm\_tov\_pct** Turnover percentage of opponent  
**oreb\_pct** Offensive rebound percentage of opponent  
**opp\_efg\_pct** Effective field goal percentage of opponent  
**opp\_fta\_rate** Free throw rate of opponent  
**opp\_tov\_pct** Turnover percentage of opponent  
**opp\_oreb\_pct** Offensive rebound percentage of opponent

## Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_ff\_team\_2024

*NBA Four Factors (Team) for the 2023-24 Season*

---

## Description

A dataset containing the NBA Four Factor table on nba.com

## Usage

`nba_ff_team_2024`

## Format

A data frame with 2460 rows and 14 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name on nba.com  
**team\_abbreviation** Team abbreviation on nba.com  
**team\_city** Team city

**min** Minutes in the game  
**efg\_pct** Effective field goal percentage  
**fta\_rate** Free throw rate of team  
**tm\_tov\_pct** Turnover percentage of opponent  
**oreb\_pct** Offensive rebound percentage of opponent  
**opp\_efg\_pct** Effective field goal percentage of opponent  
**opp\_fta\_rate** Free throw rate of opponent  
**opp\_tov\_pct** Turnover percentage of opponent  
**opp\_oreb\_pct** Offensive rebound percentage of opponent

### Source

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_ff\_team\_2025

*NBA Four Factors (Team) for the 2024-25 Season*

---

### Description

A dataset containing the NBA Four Factor table on nba.com

### Usage

nba\_ff\_team\_2025

### Format

A data frame with 2460 rows and 14 variables:

**game\_id** Game ID on nba.com  
**team\_id** Team ID on nba.com  
**team\_name** Team name on nba.com  
**team\_abbreviation** Team abbreviation on nba.com  
**team\_city** Team city  
**min** Minutes in the game  
**efg\_pct** Effective field goal percentage  
**fta\_rate** Free throw rate of team  
**tm\_tov\_pct** Turnover percentage of opponent  
**oreb\_pct** Offensive rebound percentage of opponent  
**opp\_efg\_pct** Effective field goal percentage of opponent  
**opp\_fta\_rate** Free throw rate of opponent  
**opp\_tov\_pct** Turnover percentage of opponent  
**opp\_oreb\_pct** Offensive rebound percentage of opponent

**Source**

[http://asbcllc.com/nbastatR/reference/box\\_scores.html](http://asbcllc.com/nbastatR/reference/box_scores.html)

---

nba\_games\_2021

2021 NBA Game Logs for the 2020-21 Season

---

**Description**

A dataset containing the NBA Games table on nba.com

**Usage**

nba\_games\_2021

**Format**

A data frame with 1832 rows and 47 variables:

**yearSeason** Season in which the game was played (YYYY)  
**slugSeason** Season in which the game was played (YYYY-YY)  
**slugLeague** Always given as NBA  
**typeSeason** Regular season data  
**dateGame** Date in YYYY-MM-DD  
**idGame** Game ID on nba.com  
**numberGameTeamSeason** slugTeam game number in the season  
**nameTeam** Full team name  
**idTeam** Team ID on nba.com  
**isB2B** Logical for back-to-back game  
**isB2BFirst** Logical for first game of back-to-back game  
**isB2BSecond** Logical for second game of back-to-back game  
**locationGame** Home (H) or Away (A)  
**slugMatchup** Team One vs. Team Two  
**slugTeam** Team abbreviation  
**countDaysRestTeam** Days between previous game and this game  
**countDaysNextGameTeam** Days until next game  
**slugOpponent** Opponent abbreviation  
**slugTeamWinner** Team that won (abbreviation)  
**slugTeamLoser** Team that lost (abbreviation)  
**outcomeGame** Result for slugTeam (W or L)  
**isWin** Logical for slugTeam winning

**fgmTeam** slugTeam field goals made  
**fgaTeam** slugTeam field goal attempts  
**pctFGTeam** slugTeam field goal percentage  
**fg3mTeam** slugTeam three point field goals made  
**fg3aTeam** slugTeam three point field goal attempts  
**pctFG3Team** slugTeam three point field goal percentage  
**pctFTTeam** slugTeam free throw percentage  
**hasVideo** Logical if game video exists  
**fg2mTeam** slugTeam two point field goals made  
**fg2aTeam** slugTeam two point field goal attempts  
**pctFG2Team** slugTeam two point field goal percentage  
**minutesTeam** Total minutes played  
**ftmTeam** slugTeam free throws made  
**ftaTeam** slugTeam free throw attempts  
**orebTeam** slugTeam offensive rebounds  
**drebTeam** slugTeam defensive rebounds  
**trebTeam** slugTeam total rebounds  
**astTeam** slugTeam total assists  
**stlTeam** slugTeam total steals  
**blkTeam** slugTeam total blocks  
**tovTeam** slugTeam total turnovers  
**pfTeam** slugTeam total personal fouls  
**ptsTeam** slugTeam total points scored  
**plusminusTeam** Margin of game as slugTeam score minus slugOpponent score  
**urlTeamSeasonLogo** url of slugTeam logo

## Source

[http://asbcllc.com/nbastatR/reference/game\\_logs.html](http://asbcllc.com/nbastatR/reference/game_logs.html)

---

nba\_games\_2023 *NBA Game Logs for the 2022-23 Season*

---

## Description

A dataset containing the NBA Games table on nba.com

## Usage

`nba_games_2023`

## Format

A data frame with 2460 rows and 29 variables:

**season\_id** Season in which the game was played (YYYY)  
**team\_id** Team ID on nba.com  
**team\_abbreviation** Team abbreviation on nba.com  
**team\_name** Team name on nba.com  
**game\_id** Game ID on nba.com  
**game\_date** Date in YYYY-MM-DD  
**matchup** Team One vs. Team Two  
**wl** Win or Loss  
**min** Minutes in the game  
**fgm** Team Field goals made  
**fga** Team Field goal attempts  
**fg\_pct** Team field goal percentage  
**fg3m** Team three point field goals made  
**fg3a** Team three point field goal attempts  
**fg3\_pct** Team three point field goal percentage  
**ftm** Team free throws made  
**fta** Team free throw attempts  
**ft\_pct** Team free throw percentage  
**oreb** Team offensive rebounds  
**dreb** Team defensive rebounds  
**reb** Team total rebounds  
**ast** Team total assists  
**stl** Team total steals  
**blk** Team total blocks  
**tov** Team total turnovers

**pf** Team total personal fouls  
**pts** Team total points scored  
**plus\_minus** Margin of game as Team score minus Opponent score  
**video\_available** Logical if game video exists

## Source

[http://asbc11c.com/nbastatR/reference/game\\_logs.html](http://asbc11c.com/nbastatR/reference/game_logs.html)

nba\_games\_2024 *NBA Game Logs for the 2023-24 Season*

## Description

A dataset containing the NBA Games table on nba.com

## Usage

## nba\_games\_2024

## Format

A data frame with 2460 rows and 29 variables:

**season\_id** Season in which the game was played (YYYY)

**team\_id** Team ID on nba.com

**team\_abbreviation** Team abbreviation

**team\_name** Team name on nba.com

**game\_id** Game ID on nba.com

**game\_date** Date in YYYY-MM

### matchup Team One vs. Team Two

### wl Win or Loss

**min** Minutes in the game

fgm Team Field goals made

### **fga** Team Field goal attempts

**fg\_pct** Team field goal percentage

**fg3m** Team three point field goals made

### fg3a. Team three point field goal attempts

fg3a Team three point field goal attempts

### Ig5\_pcr Team three point heterozygote

### Final Team free throws made

## Team free throw attempts

**oreb** Team offensive rebounds  
**dreb** Team defensive rebounds  
**reb** Team total rebounds  
**ast** Team total assists  
**stl** Team total steals  
**blk** Team total blocks  
**tov** Team total turnovers  
**pf** Team total personal fouls  
**pts** Team total points scored  
**plus\_minus** Margin of game as Team score minus Opponent score  
**video\_available** Logical if game video exists

### Source

[http://asbcllc.com/nbastatR/reference/game\\_logs.html](http://asbcllc.com/nbastatR/reference/game_logs.html)

---

nba\_games\_2025

*NBA Game Logs for the 2024-25 Season*

---

### Description

A dataset containing the NBA Games table on nba.com

### Usage

`nba_games_2025`

### Format

A data frame with 2460 rows and 29 variables:

**season\_id** Season in which the game was played (YYYY)  
**team\_id** Team ID on nba.com  
**team\_abbreviation** Team abbreviation on nba.com  
**team\_name** Team name on nba.com  
**game\_id** Game ID on nba.com  
**game\_date** Date in YYYY-MM-DD  
**matchup** Team One vs. Team Two  
**wl** Win or Loss  
**min** Minutes in the game  
**fgm** Team Field goals made  
**fga** Team Field goal attempts

**fg\_pct** Team field goal percentage  
**fg3m** Team three point field goals made  
**fg3a** Team three point field goal attempts  
**fg3\_pct** Team three point field goal percentage  
**ftm** Team free throws made  
**fta** Team free throw attempts  
**ft\_pct** Team free throw percentage  
**oreb** Team offensive rebounds  
**dreb** Team defensive rebounds  
**reb** Team total rebounds  
**ast** Team total assists  
**stl** Team total steals  
**blk** Team total blocks  
**tov** Team total turnovers  
**pf** Team total personal fouls  
**pts** Team total points scored  
**plus\_minus** Margin of game as Team score minus Opponent score  
**video\_available** Logical if game video exists

## Source

[http://asbcllc.com/nbastatR/reference/game\\_logs.html](http://asbcllc.com/nbastatR/reference/game_logs.html)

---

nba\_nuggets\_shots 2014/5 - 2022/23 Shot Data for the NBA's Denver Nuggets

---

## Description

A dataset containing seven seasons of Denver Nuggets shot data from NBA.com

## Usage

`nba_nuggets_shots`

## Format

A data frame with 62196 rows and 27 variables:

**yearSeason** Season in which the game was played (YYYY)  
**slugSeason** Season in which the game was played (YYYY-YY)  
**idTeam** Team ID on nba.com  
**idPlayer** Player ID on nba.com

**typeGrid** A string showing grid type  
**namePlayer** Player name  
**nameTeam** Full team name  
**typeEvent** Made or Missed Shot  
**typeAction** Type of shot, e.g. Jump Shot  
**typeShot** Two or three point shot  
**dateGame** Date in YYYY-MM-DD  
**slugTeamHome** Home Team abbreviation  
**slugTeamAway** Away Team abbreviation  
**idGame** Game ID on nba.com  
**idEvent** Event ID within the game on nba.com  
**numberPeriod** Period in game in which the shot was taken  
**minutesRemaining** Minutes remaining in the period in which the shot was taken  
**zoneBasic** Description of area on court where shot was taken  
**nameZone** Name of the zone  
**slugZone** Abbreviation of shot zone  
**zoneRange** Distance of shot in categories  
**locationX** X coordinate where shot was taken  
**locationY** Y coordinate where shot was taken  
**secondsRemaining** Seconds remainin when shot was taken  
**distanceShot** Distance of the shot in feet  
**isShotAttempted** Logical for shot taken  
**isShotMade** Logical for make/miss of shot

## Source

[http://asbc11c.com/nbastatR/reference/teams\\_shots.html](http://asbc11c.com/nbastatR/reference/teams_shots.html)

---

nhl\_data\_hockey\_reference  
*NHL Skater Statistics from Hockey Reference*

---

## Description

A dataset containing NHL Skater Statistics

## Usage

`nhl_data_hockey_reference`

## Format

A data frame with 12375 rows and 49 variables:

**player** Name  
**age** Age  
**tm** Team  
**pos** Position  
**gp** Games played  
**g** Goals  
**a** Assists  
**pts** Goals plus Assists (Points)  
**x** Plus Minus  
**pim** Penalties in minutes  
**ps** Point shares  
**ev** Even strength goals  
**pp** Power play goals  
**sh** Short handed goals  
**gw** Game winning goals  
**eva** Even strength assists  
**ppa** Power play assists  
**sha** Short handed assists  
**s** Shots on goal  
**s\_percent** Shooting percentage  
**toi** Time on ice (minutes)  
**atoi** Average time on ice  
**blk** Blocks  
**hit** Hits  
**fow** Face offs won  
**fol** Face offs lost  
**fo\_percent** Face off win percentage  
**cf** Corsi for  
**ca** Corsi against  
**cf\_percent** Corsi for percent  
**cf\_percent\_rel** On-ice Corsi for percent minus off-ice Corsi for percent  
**ff** Fenwick for  
**fa** Fenwick against  
**ff\_percent** Fenwick for percent  
**ff\_percent\_rel** On-ice Fenwick for percent minus off-ice Fenwick for percent

**oi\_sh\_percent** Team on-ice shooting percentage  
**oi\_sv\_percent** Team on-ice save percentage  
**pdo** PDO  
**o\_zs\_percent** Offensive zone start percentage  
**d\_zs\_percent** Defensive zone start percentage  
**toi\_60** Time on ice per 60 minutes  
**toi\_ev** Time on ice per 60 minutes at even strength  
**tk** Takeaways  
**gv** Giveaways  
**s\_att** Total shot attempts in all situations  
**thru\_percent** Percentage of shots taken that go on net  
**season** Season  
**e** Expected plus minus

### Source

<https://www.nhl.com/stats/>

---

nhl\_team\_stats\_2021      2021-2 *NHL Team Statistics*

---

### Description

A dataset containing the NHL Statistics

### Usage

`nhl_team_stats_2021`

### Format

A data frame with 32 rows and 35 variables:

**stat\_games\_played** Games played  
**stat\_wins** Wins  
**stat\_losses** Losses  
**stat\_ot** Overtimes  
**stat\_pts** Points  
**stat\_pt\_pctg** Point Percentage  
**stat\_goals\_per\_game** Goals per game  
**stat\_goals\_against\_per\_game** Goals against per game  
**stat\_ev\_gga\_ratio** Even strength gga ratio

**stat\_power\_play\_percentage** Power play percentage  
**stat\_power\_play\_goals** Power play goals  
**stat\_power\_play\_goals\_against** Power play goals against  
**stat\_power\_play\_opportunities** Power play opportunities  
**stat\_penalty\_kill\_percentage** Penalty kill percentage  
**stat\_shots\_per\_game** Shots per game  
**stat\_shots\_allowed** Shots allowed  
**stat\_win\_score\_first** Wins when scoring first  
**stat\_win\_opp\_score\_first** Wins when opponent scores first  
**stat\_win\_lead\_first\_per** Wins when leading after first period  
**stat\_win\_lead\_second\_per** Wins when leading after second period  
**stat\_win\_outshoot\_opp** Wins when outshooting opponent  
**stat\_win\_outshot\_by\_opp** Wins when outshot by opponent  
**stat\_faceoffs\_taken** Face-offs taken  
**stat\_faceoffs\_won** Face-offs won  
**stat\_faceoffs\_lost** Face-offs lost  
**stat\_faceoff\_win\_percentage** Face-off win percentage  
**stat\_shooting\_pctg** Shooting percentage  
**stat\_save\_pctg** Save percentage  
**stat\_penalty\_kill\_opportunities** Penalty kill opportunities  
**stat\_save\_pct\_rank** Save percentage rank  
**stat\_shooting\_pct\_rank** Shooting percentage rank  
**team\_id** Team ID  
**team\_name** Team name  
**team\_link** Team link  
**season** Season

## Source

<https://www.nhl.com/stats/>

---

nhl\_team\_stats\_2022    2022-3 *NHL Team Statistics*

---

### Description

A dataset containing the NHL Statistics

### Usage

```
nhl_team_stats_2022
```

### Format

A data frame with 32 rows and 35 variables:

**stat\_games\_played** Games played  
**stat\_wins** Wins  
**stat\_losses** Losses  
**stat\_ot** Overtimes  
**stat\_pts** Points  
**stat\_pt\_pctg** Point Percentage  
**stat\_goals\_per\_game** Goals per game  
**stat\_goals\_against\_per\_game** Goals against per game  
**stat\_ev\_gga\_ratio** Even strength gga ratio  
**stat\_power\_play\_percentage** Power play percentage  
**stat\_power\_play\_goals** Power play goals  
**stat\_power\_play\_goals\_against** Power play goals against  
**stat\_power\_play\_opportunities** Power play opportunities  
**stat\_penalty\_kill\_percentage** Penalty kill percentage  
**stat\_shots\_per\_game** Shots per game  
**stat\_shots\_allowed** Shots allowed  
**stat\_win\_score\_first** Wins when scoring first  
**stat\_win\_opp\_score\_first** Wins when opponent scores first  
**stat\_win\_lead\_first\_per** Wins when leading after first period  
**stat\_win\_lead\_second\_per** Wins when leading after second period  
**stat\_win\_outshoot\_opp** Wins when outshooting opponent  
**stat\_win\_outshot\_by\_opp** Wins when outshot by opponent  
**stat\_faceoffs\_taken** Face-offs taken  
**stat\_faceoffs\_won** Face-offs won  
**stat\_faceoffs\_lost** Face-offs lost

**stat\_face\_off\_win\_percentage** Face-off win percentage  
**stat\_shooting\_pctg** Shooting percentage  
**stat\_save\_pctg** Save percentage  
**stat\_penalty\_kill\_opportunities** Penalty kill opportunities  
**stat\_save\_pct\_rank** Save percentage rank  
**stat\_shooting\_pct\_rank** Shooting percentage rank  
**team\_id** Team ID  
**team\_name** Team name  
**team\_link** Team link  
**season** Season

### Source

<https://www.nhl.com/stats/>

---

nws1\_player\_stats 2022 NWSL Player Statistics

---

### Description

A dataset containing individual player statistics for the National Women's Soccer League

### Usage

`nws1_player_stats`

### Format

A data frame with 314 rows and 13 variables:

**player** Player name  
**nation** Player home country  
**pos** Player position  
**squad** Player team  
**age** Age of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season  
**xGp90** Expected goals per ninety minutes  
**xAp90** Expected assists per ninety minutes  
**xGxAp90** Expected goals plus assists per ninety minutes  
**npxGp90** Expected goals minus penalty goals per ninety minutes  
**npxGxAp90** Expected goals plus assists minus penalty goals per ninety minutes

**Source**

<https://fbref.com/en/comps/182/stats/NWSL-Stats>

---

nws1\_player\_stats\_2023

*2023 NWSL Player Statistics*

---

**Description**

A dataset containing individual player statistics for the National Women's Soccer League

**Usage**

`nws1_player_stats_2023`

**Format**

A data frame with 307 rows and 18 variables:

**player** Player name

**nation** Player home country

**pos** Player position

**squad** Player team

**age** Age of player

**mp** Matches played

**starts** Number of matches in which player started the game

**min** Total minutes played in the season

**Gp90** Goals per ninety minutes

**Ap90** Assists per ninety minutes

**GAp90** Goals plus assists per ninety minutes

**npGp90** Goals minus penalty goals per ninety minutes

**npGAp90** Goals plus assists minus penalty goals per ninety minutes

**xGp90** Expected goals per ninety minutes

**xAp90** Expected assists per ninety minutes

**xGAp90** Expected goals plus assists per ninety minutes

**npxGp90** Expected goals minus penalty goals per ninety minutes

**npxGAp90** Expected goals plus assists minus penalty goals per ninety minutes

**Source**

<https://fbref.com/en/comps/182/stats/NWSL-Stats>

---

**nws1\_player\_stats\_2024***2024 NWSL Player Statistics*

---

**Description**

A dataset containing individual player statistics for the National Women's Soccer League

**Usage**

```
nws1_player_stats_2024
```

**Format**

A data frame with 376 rows and 18 variables:

**player** Player name  
**nation** Player home country  
**pos** Player position  
**squad** Player team  
**age** Age of player  
**mp** Matches played  
**starts** Number of matches in which player started the game  
**min** Total minutes played in the season  
**Gp90** Goals per ninety minutes  
**Ap90** Assists per ninety minutes  
**GAp90** Goals plus assists per ninety minutes  
**npGp90** Goals minus penalty goals per ninety minutes  
**npGAp90** Goals plus assists minus penalty goals per ninety minutes  
**xGp90** Expected goals per ninety minutes  
**xAp90** Expected assists per ninety minutes  
**xGxAp90** Expected goals plus assists per ninety minutes  
**npxGp90** Expected goals minus penalty goals per ninety minutes  
**npxGxAp90** Expected goals plus assists minus penalty goals per ninety minutes

**Source**

<https://fbref.com/en/comps/182/stats/NWSL-Stats>

---

ow_golf_rankings	2022 <i>Official World Golf Rankings</i>
------------------	------------------------------------------

---

### Description

A dataset containing the Official World Golf Rankings in June 2022

### Usage

ow\_golf\_rankings

### Format

A data frame with 300 rows and 2 variables:

**WGR\_June\_2022** official golf world ranking

**Player\_initial\_last** initial of first name and complete last name of player

### Source

<https://www.owgr.com/archive/archive.sps?iType=1747>

---

pga_tournaments	PGA Tournament Data
-----------------	---------------------

---

### Description

A dataset containing PGA Tournament Data from 2022 season

### Usage

pga\_tournaments

### Format

A data frame with 3676 rows and 34 variables:

**Player\_initial\_last** initial of first name and complete last name of player

**tournament.id** tournament ID

**player.id** player ID

**hole\_par** par across all holes played by the player

**strokes** strokes taken on all holes played by the player

**hole\_DKP** Draftkings points on holes

**hole\_FDP** Fanduel points on the holes

**hole\_SDP** Showdown points on the holes  
**streak\_DKP** Draftkings points on streaks  
**streak\_FDP** Fanduel points on streaks  
**streak\_SDP** Showdown points on streaks  
**n\_rounds** number of rounds played  
**made\_cut** player made the cut or not  
**pos** finishing position of player  
**finish\_DKP** Draftkings points on the finishing position  
**finish\_FDP** Fanduel points on the finishing position  
**finish\_SDP** Showdown points on the finishing position  
**total\_DKP** total Draftkings points for the tournament  
**total\_FDP** total Fanduel points for the tournament  
**total\_SDP** total Showdown points for the tournament  
**player** player full name  
**tournament.name** tournament full name  
**course** course name  
**date** date of tournament  
**purse** total prize money (in millions)  
**season** year of season  
**no\_cut** Not sure  
**Finish** finishing position  
**sg\_putt** strokes gained from putting  
**sg\_arg** strokes gained around the green  
**sg\_app** strokes gained on approach shots  
**sg\_ott** strokes gained off the tee  
**sg\_t2g** strokes gained tee to green  
**sg\_total** total strokes gained

## Source

Courtesy of Matt Courchene of Datagolf.com

---

**wnba\_player\_shots\_2024***2024 WNBA Player Shots*

---

**Description**

A dataset containing Breanna Stewart and A'ja Wilson's WNBA shots in the 2024 season

**Usage**

```
wnba_player_shots_2024
```

**Format**

A data frame with 3388 rows and 3 variables:

**athlete\_display\_name** Player name .  
**coordinate\_x** X Coordinate of Shot .  
**coordinate\_y** Y Coordinate of Shot

**Source**

<https://wehoop.sportsdataverse.org>

---

**wnba\_player\_shots\_2025***2025 WNBA Player Shots*

---

**Description**

A dataset containing Breanna Stewart and A'ja Wilson's WNBA shots in the 2025 season

**Usage**

```
wnba_player_shots_2025
```

**Format**

A data frame with 3297 rows and 3 variables:

**athlete\_display\_name** Player name .  
**coordinate\_x** X Coordinate of Shot .  
**coordinate\_y** Y Coordinate of Shot

**Source**

<https://wehoop.sportsdataverse.org>

---

wnba\_seattle\_pbp\_2024 2024 WNBA Seattle Storm Shots

---

**Description**

A dataset containing all Seattle Storm shots in the 2024 season

**Usage**

wnba\_seattle\_pbp\_2024

**Format**

A data frame with 5156 rows and 3 variables:

coordinate\_x X Coordinate of Shot .  
coordinate\_y Y Coordinate of Shot  
scoring\_play Made or Missed Shot

**Source**

<https://wehoop.sportsdataverse.org>

---

wnba\_seattle\_pbp\_2025 2025 WNBA Seattle Storm Shots

---

**Description**

A dataset containing all Seattle Storm shots in the 2025 season

**Usage**

wnba\_seattle\_pbp\_2025

**Format**

A data frame with 6347 rows and 3 variables:

coordinate\_x X Coordinate of Shot .  
coordinate\_y Y Coordinate of Shot  
scoring\_play Made or Missed Shot

**Source**

<https://wehoop.sportsdataverse.org>

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