

Package ‘cfbfastR’

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Title Access College Football Play by Play Data

Version 1.9.0

Description A utility to quickly obtain clean and tidy college football data. Serves as a wrapper around the [<https://collegefootballdata.com/>](https://collegefootballdata.com/) API and provides functions to access live play by play and box score data from ESPN [<https://www.espn.com>](https://www.espn.com) when available. It provides users the capability to access a plethora of endpoints, and supplement that data with additional information (Expected Points Added/Win Probability added).

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URL <https://cfbfastR.sportsdataverse.org/>,
<https://github.com/sportsdataverse/cfbfastR>

BugReports <https://github.com/sportsdataverse/cfbfastR/issues>

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 cfbd_betting_lines **CFBD Betting Lines Endpoint Overview**

Description**Get betting lines information for games****Usage**

```

cfbd_betting_lines(
  game_id = NULL,
  year = NULL,
  week = NULL,
  season_type = "regular",
  team = NULL,
  home_team = NULL,
  away_team = NULL,
  conference = NULL,
  line_provider = NULL
)

```

Arguments

game_id	(<i>Integer</i> optional): Game ID filter for querying a single game Can be found using the <code>cfbd_game_info()</code> function
year	(<i>Integer</i> required): Year, 4 digit format(YYYY)
week	(<i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	(<i>String</i> default regular): Select Season Type: regular or postseason
team	(<i>String</i> optional): D-I Team
home_team	(<i>String</i> optional): Home D-I Team
away_team	(<i>String</i> optional): Away D-I Team
conference	(<i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
line_provider	(<i>String</i> optional): Select Line Provider - Caesars, consensus, numberfire, or teamrankings

Value

Betting information for games with the following columns:

game_id:integer. Unique game identifier - game_id.

season:integer. Season parameter.

season_type:character.) Season Type (regular, postseason, both)

week:integer. Week, values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier).

start_date:character. Start Date

home_team:character. Home D-I Team.

home_conference:character. Home D-I Conference.

home_score:integer. Home Score.

away_team:character. Away D-I Team.

away_conference:character. Away D-I Conference.

away_score:integer. Away Score.

provider:character. Line provider.

spread:character. Spread for the game.

formatted_spread:character. Formatted spread for the game.

spread_open:character. Opening spread for the game.

over_under:character. Over/Under for the game.

over_under_open:character. Opening over/under for the game.

home_moneyline:character. Home team moneyline.

away_moneyline:character. Away team moneyline.

Examples

```
try(cfbd_betting_lines(year = 2018, week = 12, team = "Florida State"))
```

cfbd_calendar

Get calendar of weeks by season.

Description

Get calendar of weeks by season.

Usage

```
cfbd_calendar(year)
```

Arguments

year *(Integer required):* Year, 4 digit format (YYYY)

Value

`cfbd_calendar()` - A data frame with 5 variables:

season: character. Calendar season.

week: integer. Calendar game week.

season_type: character Season type of calendar week.

first_game_start: character. First game start time of the calendar week.

last_game_start: character. Last game start time of the calendar week.

Examples

```
try(cfbd_calendar(2019))
```

cfbd_coaches

CFBD Coaches Endpoint Overview

Description

Coach information search A coach search function which provides coaching records and school history for a given coach

Usage

```
cfbd_coaches(  
  first = NULL,  
  last = NULL,  
  team = NULL,  
  year = NULL,  
  min_year = NULL,  
  max_year = NULL  
)
```

Arguments

<code>first</code>	(<i>String</i> optional): First name for the coach you are trying to look up
<code>last</code>	(<i>String</i> optional): Last name for the coach you are trying to look up
<code>team</code>	(<i>String</i> optional): Team - Select a valid team, D1 football
<code>year</code>	(<i>Integer</i> optional): Year, 4 digit format (YYYY).
<code>min_year</code>	(<i>Integer</i> optional): Minimum Year filter (inclusive), 4 digit format (YYYY).
<code>max_year</code>	(<i>Integer</i> optional): Maximum Year filter (inclusive), 4 digit format (YYYY)

Value

first_name:character. First name of coach.
last_name:character. Last name of coach.
hire_date:character. Hire date of coach.
school:character. School of coach.
year:integer. Season of record.
games:integer. Games as coach.
wins:integer. Wins for the season.
losses:integer. Losses for the season.
ties:integer. Ties for the season.
preseason_rank:integer. Preseason rank for the school of coach.
postseason_rank:integer. Postseason rank for the school of coach.
srs:character. Simple Rating System adjustment for team.
sp_overall:character. Bill Connelly's SP+ overall for team.
sp_offense:character. Bill Connelly's SP+ offense for team.
sp_defense:character. Bill Connelly's SP+ defense for team.

Examples

```
try(cfbd_coaches(first = "Nick", last = "Saban", team = "alabama"))
```

cfbd_conferences

CFBD Conferences Endpoint Overview

Description

Get college football conference information Pulls all college football conferences and returns as data frame

Usage

```
cfbd_conferences()
```

Value

`cfbd_conferences()` - A data frame with 94 rows and 5 variables:

conference_id: Referencing conference id.
name: Conference name.
long_name: Long name for Conference.
abbreviation: Conference abbreviation.
classification: Conference classification (fbs,fcs,ii,iii)

Examples

```
try(cfbd_conferences())
```

cfbd_draft

CFBD NFL Draft Endpoint Overview

Description

cfbd_draft_teams(): Get list of NFL teams.

cfbd_draft_positions(): Get list of NFL positions for mapping to college positions.

cfbd_draft_picks(): Get list of NFL Draft picks.

Details**Get list of NFL teams:**

```
cfbd_draft_teams()
```

Get list of NFL positions for mapping to collegiate:

```
cfbd_draft_positions()
```

Get list of NFL Draft picks:

```
cfbd_draft_picks(year = 2020, college = "Texas")
```

```
cfbd_draft_picks(nfl_team = "Cincinnati")
```

cfbd_draft_picks

Get list of NFL draft picks

Description**Get list of NFL draft picks****Usage**

```
cfbd_draft_picks(
  year = NULL,
  nfl_team = NULL,
  college = NULL,
  conference = NULL,
  position = NULL
)
```


Arguments

year	(<i>Integer</i> required): NFL draft class, 4 digit format (YYYY)
nfl_team	(<i>String</i>): NFL drafting team, see <code>cfbd_draft_teams()</code> for valid selections.
college	(<i>String</i>): NFL draftee college team, see <code>cfbd_team_info()</code> for valid selections.
conference	(<i>String</i>): NFL draftee college team conference, see <code>cfbd_conferences()</code> for valid selections.
position	(<i>String</i>): NFL position abbreviation, see <code>cfbd_draft_positions()</code> for valid selections.

Value

`cfbd_draft_picks()` - A data frame with 23 variables:

college_athlete_id: **integer**. College athlete referencing id.
 nfl_athlete_id: **integer** NFL athlete referencing id.
 college_id: **integer** College team referencing id.
 college_team: **character** College team name.
 college_conference: **character** Conference of college team.
 nfl_team: **character** NFL team name of drafted player.
 year: **integer**. NFL draft class year.
 overall: **integer**. Overall draft pick number.
 round: **integer**. Round of NFL draft the draftee was picked in.
 pick: **integer**. Pick number of the NFL draftee within the round they were picked in.
 name: **character**. NFL draftee name.
 position: **character**. NFL draftee position.
 height: **double**. NFL draftee height.
 weight: **integer**. NFL draftee weight.
 pre_draft_ranking: **integer** Pre-draft ranking (ESPN).
 pre_draft_position_ranking: **integer**. Pre-draft position ranking (ESPN).
 pre_draft_grade: **double**. Pre-draft scouts grade (ESPN).
 hometown_info_city: **character**. Hometown of the NFL draftee.
 hometown_info_state_province: **character**. Hometown state of the NFL draftee.
 hometown_info_country: **character**. Hometown country of the NFL draftee.
 hometown_info_latitude: **character**. Hometown latitude of the NFL draftee.
 hometown_info_longitude: **character**. Hometown longitude of the NFL draftee.
 hometown_info_county_fips: **character**. Hometown FIPS code of the NFL draftee.

Examples

```
try(cfbd_draft_picks(year = 2020))

try(cfbd_draft_picks(year = 2016, position = "PK"))
```

cfbd_draft_positions **Get list of NFL positions**

Description

Get list of NFL positions

Usage

```
cfbd_draft_positions()
```

Value

`cfbd_draft_positions()` - A data frame with 2 variables:

`position_name`: **character**. NFL Position group name.

`position_abbreviation`: **integer** NFL position group abbreviation.

Examples

```
try(cfbd_draft_positions())
```

cfbd_draft_teams **Get list of NFL teams**

Description

Get list of NFL teams

Usage

```
cfbd_draft_teams()
```

Value

`cfbd_draft_teams()` - A data frame with 4 variables:

`nfl_location`: **character**. NFL team location (city).

`nfl_nickname`: **integer** NFL team nickname (mascot).

`nfl_display_name`: **integer** NFL team display name (usually more neat/complete).

`nfl_logo`: **character** URL for NFL team logo.

Examples

```
try(cfbd_draft_teams())
```

cfbd_drives

CFBD Drives Endpoint

Description

Get college football game drives

Usage

```
cfbd_drives(
  year,
  season_type = "regular",
  week = NULL,
  team = NULL,
  offense_team = NULL,
  defense_team = NULL,
  conference = NULL,
  offense_conference = NULL,
  defense_conference = NULL
)
```

Arguments

year	(<i>Integer</i> required): Year, 4 digit format (YYYY)
season_type	(<i>String</i> default regular): Select Season Type: regular, postseason, or both
week	(<i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	(<i>String</i> optional): D-I Team
offense_team	(<i>String</i> optional): Offense D-I Team
defense_team	(<i>String</i> optional): Defense D-I Team
conference	(<i>String</i> optional): DI Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
offense_conference	(<i>String</i> optional): Offense DI Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
defense_conference	(<i>String</i> optional): Defense DI Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

Value

`cfbd_drives()` - A data frame with 23 variables as follows:

offense:character. Drive offense.

offense_conference:character. Drive offense's conference.

defense:character. Drive defense.

defense_conference:character. Drive defense's conference.

game_id:integer. Unique game identifier - `game_id`.

drive_id:character. Unique drive identifier - `drive_id`.

drive_number:integer. Drive number in game.

scoring:logical. Drive ends in a score.

start_period:integer. Period (or Quarter) in which the drive starts.

start_yardline:integer. Yard line at the drive start.

start_yards_to_goal:integer. Yards-to-Goal at the drive start.

end_period:integer. Period (or Quarter) in which the drive ends.

end_yardline:integer. Yard line at drive end.

end_yards_to_goal:integer. Yards-to-Goal at drive end.

plays:integer. Number of drive plays.

yards:integer. Total drive yards.

drive_result:character. Result of the drive description.

is_home_offense:logical. Flag for if the offense on the field is the home offense

start_offense_score:numeric. Offense score at the start of the drive.

start_defense_score:numeric. Defense score at the start of the drive.

end_offense_score:numeric. Offense score at the end of the drive.

end_defense_score:numeric. Defense score at the end of the drive.

time_minutes_start:integer. Minutes at drive start.

time_seconds_start:integer. Seconds at drive start.

time_minutes_end:integer. Minutes at drive end.

time_seconds_end:integer. Seconds at drive end.

time_minutes_elapsed:double. Minutes elapsed during drive.

time_seconds_elapsed:integer. Seconds elapsed during drive.

Examples

```
try(cfbd_drives(2018, week = 1, team = "TCU"))
```

```
try(cfbd_drives(2018, team = "Texas A&M", defense_conference = "SEC"))
```

Description

Get results, statistics and information for games

cfbd_game_box_advanced(): Get game advanced box score information.

cfbd_game_player_stats(): Get results information from games.

cfbd_game_team_stats(): Get team statistics by game.

cfbd_game_info(): Get results information from games.

cfbd_game_weather(): Get weather from games.

cfbd_game_records(): Get team records by year.

cfbd_calendar(): Get calendar of weeks by season.

cfbd_game_media(): Get game media information (TV, radio, etc).

Details

Get game advanced box score information.:

```
cfbd_game_box_advanced(game_id = 401114233)
```

Get player statistics by game:

```
cfbd_game_player_stats(2018, week = 15, conference = "Ind")
```

```
cfbd_game_player_stats(2013, week = 1, team = "Florida State", category = "passing")
```

Get team records by year:

```
cfbd_game_records(2018, team = "Notre Dame")
```

```
cfbd_game_records(2013, team = "Florida State")
```

Get team statistics by game:

```
cfbd_game_team_stats(2019, team = "LSU")
```

```
cfbd_game_team_stats(2013, team = "Florida State")
```

Get results information from games.:

```
cfbd_game_info(2018, week = 1)
```

```
cfbd_game_info(2018, week = 7, conference = "Ind")
```

```
# 7 OTs LSU @ TAMU
```

```
cfbd_game_info(2018, week = 13, team = "Texas A&M", quarter_scores = TRUE)
```

```
### **Get weather from games.**
```r
cfbd_game_weather(2018, week = 1)

cfbd_game_info(2018, week = 7, conference = "Ind")
```

#### **Get calendar of weeks by season.:**

```
cfbd_calendar(2019)
```

#### **Get game media information (TV, radio, etc.):**

```
cfbd_game_media(2019, week = 4, conference = "ACC")
```

---

cfbd\_game\_box\_advanced

### **Get game advanced box score information.**

---

#### **Description**

**Get game advanced box score information.**

#### **Usage**

```
cfbd_game_box_advanced(game_id, long = FALSE)
```

#### **Arguments**

game_id	( <i>Integer</i> required): Game ID filter for querying a single game Can be found using the <a href="#">cfbd_game_info()</a> function
long	( <i>Logical</i> default FALSE): Return the data in a long format.

#### **Value**

[cfbd\\_game\\_box\\_advanced\(\)](#) - A data frame with 2 rows and 69 variables:

team: **character**. Team name.

plays: **double**. Number of plays.

ppa\_overall\_total: **double**. Predicted points added (PPA) overall total.

ppa\_overall\_quarter1: **double**. Predicted points added (PPA) overall Q1.

ppa\_overall\_quarter2: **double**. Predicted points added (PPA) overall Q2.

ppa\_overall\_quarter3: **double**. Predicted points added (PPA) overall Q3.

ppa\_overall\_quarter4: **double**. Predicted points added (PPA) overall Q4.

ppa\_passing\_total: **double**. Passing predicted points added (PPA) total.

ppa\_passing\_quarter1: **double**. Passing predicted points added (PPA) Q1.

ppa\_passing\_quarter2: **double**. Passing predicted points added (PPA) Q2.

ppa\_passing\_quarter3: **double**. Passing predicted points added (PPA) Q3.  
ppa\_passing\_quarter4: **double**. Passing predicted points added (PPA) Q4.  
ppa\_rushing\_total: **double**. Rushing predicted points added (PPA) total.  
ppa\_rushing\_quarter1: **double**. Rushing predicted points added (PPA) Q1.  
ppa\_rushing\_quarter2: **double**. Rushing predicted points added (PPA) Q2.  
ppa\_rushing\_quarter3: **double**. Rushing predicted points added (PPA) Q3.  
ppa\_rushing\_quarter4: **double**. Rushing predicted points added (PPA) Q4.  
cumulative\_ppa\_plays: **double**. Cumulative predicted points added (PPA) added total.  
cumulative\_ppa\_overall\_total: **double**. Cumulative predicted points added (PPA) total.  
cumulative\_ppa\_overall\_quarter1: **double**. Cumulative predicted points added (PPA) Q1.  
cumulative\_ppa\_overall\_quarter2: **double**. Cumulative predicted points added (PPA) Q2.  
cumulative\_ppa\_overall\_quarter3: **double**. Cumulative predicted points added (PPA) Q3.  
cumulative\_ppa\_overall\_quarter4: **double**. Cumulative predicted points added (PPA) Q4.  
cumulative\_ppa\_passing\_total: **double**. Cumulative passing predicted points added (PPA) total.  
cumulative\_ppa\_passing\_quarter1: **double**. Cumulative passing predicted points added (PPA) Q1.  
cumulative\_ppa\_passing\_quarter2: **double**. Cumulative passing predicted points added (PPA) Q2.  
cumulative\_ppa\_passing\_quarter3: **double**. Cumulative passing predicted points added (PPA) Q3.  
cumulative\_ppa\_passing\_quarter4: **double**. Cumulative passing predicted points added (PPA) Q4.  
cumulative\_ppa\_rushing\_total: **double**. Cumulative rushing predicted points added (PPA) total.  
cumulative\_ppa\_rushing\_quarter1: **double**. Cumulative rushing predicted points added (PPA) Q1.  
cumulative\_ppa\_rushing\_quarter2: **double**. Cumulative rushing predicted points added (PPA) Q2.  
cumulative\_ppa\_rushing\_quarter3: **double**. Cumulative rushing predicted points added (PPA) Q3.  
cumulative\_ppa\_rushing\_quarter4: **double**. Cumulative rushing predicted points added (PPA) Q4.  
success\_rates\_overall\_total: **double**. Success rates overall total.  
success\_rates\_overall\_quarter1: **double**. Success rates overall Q1.  
success\_rates\_overall\_quarter2: **double**. Success rates overall Q2.  
success\_rates\_overall\_quarter3: **double**. Success rates overall Q3.  
success\_rates\_overall\_quarter4: **double**. Success rates overall Q4.  
success\_rates\_standard\_downs\_total: **double**. Success rates standard downs total.  
success\_rates\_standard\_downs\_quarter1: **double**. Success rates standard downs Q1.

success\_rates\_standard\_downs\_quarter2: **double**. Success rates standard downs Q2.  
 success\_rates\_standard\_downs\_quarter3: **double**. Success rates standard downs Q3.  
 success\_rates\_standard\_downs\_quarter4: **double**. Success rates standard downs Q4.  
 success\_rates\_passing\_downs\_total: **double**. Success rates passing downs total.  
 success\_rates\_passing\_downs\_quarter1: **double**. Success rates passing downs Q1.  
 success\_rates\_passing\_downs\_quarter2: **double**. Success rates passing downs Q2.  
 success\_rates\_passing\_downs\_quarter3: **double**. Success rates passing downs Q3.  
 success\_rates\_passing\_downs\_quarter4: **double**. Success rates passing downs Q4.  
 explosiveness\_overall\_total: **double**. Explosiveness rates overall total.  
 explosiveness\_overall\_quarter1: **double**. Explosiveness rates overall Q1.  
 explosiveness\_overall\_quarter2: **double**. Explosiveness rates overall Q2.  
 explosiveness\_overall\_quarter3: **double**. Explosiveness rates overall Q3.  
 explosiveness\_overall\_quarter4: **double**. Explosiveness rates overall Q4.  
 rushing\_power\_success: **double**. Rushing power success rate.  
 rushing\_stuff\_rate: **double**. Rushing stuff rate.  
 rushing\_line\_yds: **double**. Rushing offensive line yards.  
 rushing\_line\_yds\_avg: **double**. Rushing line yards average.  
 rushing\_second\_lvl\_yds: **double**. Rushing second-level yards.  
 rushing\_second\_lvl\_yds\_avg: **double**. Average second level yards per rush.  
 rushing\_open\_field\_yds: **double**. Rushing open field yards.  
 rushing\_open\_field\_yds\_avg: **double**. Average rushing open field yards average.  
 havoc\_total: **double**. Total havoc rate.  
 havoc\_front\_seven: **double**. Front-7 players havoc rate.  
 havoc\_db: **double**. Defensive back players havoc rate.  
 scoring\_opps\_opportunities: **double**. Number of scoring opportunities.  
 scoring\_opps\_points: **double**. Points on scoring opportunity drives.  
 scoring\_opps\_pts\_per\_opp: **double**. Points per scoring opportunity drives.  
 field\_pos\_avg\_start: **double**. Average starting field position.  
 field\_pos\_avg\_starting\_predicted\_pts: **double**. Average starting predicted points (PP) for the average starting field position.

### Examples

```
try(cfbd_game_box_advanced(game_id = 401114233))
```



---

cfbd\_game\_info                    **Get results information from games.**

---

## Description

**Get results information from games.**

## Usage

```
cfbd_game_info(
 year,
 week = NULL,
 season_type = "regular",
 team = NULL,
 home_team = NULL,
 away_team = NULL,
 conference = NULL,
 game_id = NULL,
 quarter_scores = FALSE
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format(YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	( <i>String</i> default regular): Select Season Type: regular, postseason, or both
team	( <i>String</i> optional): D-I Team
home_team	( <i>String</i> optional): Home D-I Team
away_team	( <i>String</i> optional): Away D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
game_id	( <i>Integer</i> optional): Game ID filter for querying a single game
quarter_scores	( <i>Logical</i> default FALSE): This is a parameter to return the list columns that give the score at each quarter: home_line_scores and away_line_scores. I have defaulted the parameter to false so that you will not have to go to the trouble of dropping it.

## Value

`cfbd_game_info()` - A data frame with 22 variables:

game\_id: **integer**. Referencing game id.

season: **integer**. Season of the game.

**week: integer.** Game week.

**season\_type: character.** Season type of the game.

**start\_date: character.** Game date.

**start\_time\_tbd: logical.** TRUE/FALSE flag for if the game's start time is to be determined.

**neutral\_site: logical.** TRUE/FALSE flag for the game taking place at a neutral site.

**conference\_game: logical.** TRUE/FALSE flag for this game qualifying as a conference game.

**attendance: integer.** Reported attendance at the game.

**venue\_id: integer.** Referencing venue id.

**venue: character.** Venue name.

**home\_id: integer.** Home team referencing id.

**home\_team: character.** Home team name.

**home\_conference: character.** Home team conference.

**home\_points: integer.** Home team points.

**home\_post\_win\_prob: character.** Home team post-game win probability.

**home\_pregame\_elo: character.** Home team pre-game ELO rating.

**home\_postgame\_elo: character.** Home team post-game ELO rating.

**away\_id: integer.** Away team referencing id.

**away\_team: character.** Away team name.

**away\_conference: character.** Away team conference.

**away\_points: integer.** Away team points.

**away\_post\_win\_prob: character.** Away team post-game win probability.

**away\_pregame\_elo: character.** Away team pre-game ELO rating.

**away\_postgame\_elo: character.** Away team post-game ELO rating.

**excitement\_index: character.** Game excitement index.

**highlights: character.** Game highlight urls.

**notes: character.** Game notes.

## Examples

```
try(cfbd_game_info(2018, week = 7, conference = "Ind"))
```

---

cfbd_game_media	<b>Get game media information (TV, radio, etc).</b>
-----------------	-----------------------------------------------------

---

## Description

**Get game media information (TV, radio, etc).**

## Usage

```
cfbd_game_media(
 year,
 week = NULL,
 season_type = "both",
 team = NULL,
 conference = NULL,
 media_type = NULL
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week, values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	( <i>String</i> default both): Select Season Type, regular, postseason, or both
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
media_type	( <i>String</i> optional): Media type filter: tv, radio, web, ppv, or mobile

## Value

`cfbd_game_media()` - A data frame with 13 variables:

`game_id`: **integer**. Referencing game id.

`season`: **integer**. Season of the game.

`week`: **integer**. Game week.

`season_type`: **character**. Season type of the game.

`start_time`: **character**. Game start time.

`is_start_time_tbd`: **logical**. TRUE/FALSE flag for if the start time is still to be determined.

`home_team`: **character**. Home team of the game.

`home_conference`: **character**. Conference of the home team.

`away_team`: **character**. Away team of the game.

away\_conference: **character.** Conference of the away team.

tv: **list.** TV broadcast networks.

radio: **logical.** Radio broadcast networks.

web: **list.** Web viewing platforms carrying the game.

## Examples

```
try(cfbd_game_media(2019, week = 4, conference = "ACC"))
```

---

cfbd\_game\_player\_stats

### Get player statistics by game

---

## Description

### Get player statistics by game

## Usage

```
cfbd_game_player_stats(
 year,
 week = NULL,
 season_type = "regular",
 team = NULL,
 conference = NULL,
 category = NULL,
 game_id = NULL
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format(YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	( <i>String</i> default regular): Select Season Type: regular or postseason
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
category	( <i>String</i> optional): Category filter (e.g defensive) Offense: passing, receiving, rushing Defense: defensive, fumbles, interceptions Special Teams: punting, puntReturns, kicking, kickReturns
game_id	( <i>Integer</i> optional): Game ID filter for querying a single game Can be found using the <a href="#">cfbd_game_info()</a> function

**Value**

`cfbd_game_player_stats()` - A data frame with 32 variables:

`game_id`: **integer**. Referencing game id.  
`team`: **character**. Team name.  
`conference`: **character**. Conference of the team.  
`home_away`: **character**. Flag for if the team was the home or away team.  
`points`: **integer**. Team points.  
`category`: **character**. Statistic category.  
`athlete_id`: **character**. Athlete referencing id.  
`name`: **character**. Player name.  
`c_att`: **character**. Completions - Pass attempts.  
`yds`: **double**. Statistic yardage.  
`avg`: **double**. Average per statistic.  
`td`: **double**. Touchdowns scored.  
`int`: **double**. Interceptions thrown.  
`qbr`: **double**. Quarterback rating.  
`car`: **double**. Number of rushing carries.  
`long`: **double**. Longest carry/reception of the game.  
`rec`: **double**. Number of pass receptions.  
`no`: **double**. Player number.  
`fg`: **character**. Field goal attempts in the game.  
`pct`: **double**. Field goal percentage in the game.  
`xp`: **character**. Extra points kicked in the game.  
`pts`: **double**. Total kicking points in the game.  
`tb`: **double**. Touchbacks (for kicking) in the game.  
`in_20`: **double**. Punts inside the 20 yardline in the game.  
`fum`: **double**. Player fumbles in the game.  
`lost`: **double**. Player fumbles lost in the game.  
`tot`: **double**. Total tackles in the game.  
`solo`: **double**. Solo tackles in the game.  
`sacks`: **double**. Total sacks in the game.  
`tfl`: **double**. Total tackles for loss in the game.  
`pd`: **double**. Total passes defensed in the game.  
`qb_hur`: **double**. Total quarterback hurries in the game.

**Examples**

```
try(cfbd_game_player_stats(year = 2020, week = 15, team = "Alabama"))
```

```
try(cfbd_game_player_stats(2013, week = 1, team = "Florida State", category = "passing"))
```

---

cfbd\_game\_records      **Get team records by year**

---

### Description

#### Get team records by year

### Usage

```
cfbd_game_records(year, team = NULL, conference = NULL)
```

### Arguments

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): Team - Select a valid team, D1 football
conference	( <i>String</i> optional): DI Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbrevi- ations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

### Value

`cfbd_game_records()` - A data frame with 21 variables:

year: **integer**. Season of the games.

team: **character**. Team name.

conference: **character**. Conference of the team.

division: **character**. Division in the conference of the team.

expected\_wins: **numeric**. Expected number of wins based on post-game win probability.

total\_games: **integer**. Total number of games played.

total\_wins: **integer**. Total wins.

total\_losses: **integer**. Total losses.

total\_ties: **integer**. Total ties.

conference\_games: **integer**. Number of conference games.

conference\_wins: **integer**. Total conference wins.

conference\_losses: **integer**. Total conference losses.

conference\_ties: **integer**. Total conference ties.

home\_games: **integer**. Total home games.

home\_wins: **integer**. Total home wins.

home\_losses: **integer**. Total home losses.

home\_ties: **integer**. Total home ties.

away\_games: **integer**. Total away games.

away\_wins: **integer**. Total away wins.

away\_losses: **integer**. Total away losses.

away\_ties: **integer**. Total away ties.

**Examples**

```
try(cfbd_game_records(2018, team = "Notre Dame"))
try(cfbd_game_records(2013, team = "Florida State"))
```

---

cfbd\_game\_team\_stats    **Get team statistics by game**

---

**Description****Get team statistics by game****Usage**

```
cfbd_game_team_stats(
 year,
 week = NULL,
 season_type = "regular",
 team = NULL,
 conference = NULL,
 game_id = NULL,
 rows_per_team = 1
)
```

**Arguments**

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
season_type	( <i>String</i> default: regular): Select Season Type - regular, postseason, or both
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
game_id	( <i>Integer</i> optional): Game ID filter for querying a single game Can be found using the <code>cfbd_game_info()</code> function
rows_per_team	( <i>Integer</i> default 1): Both Teams for each game on one or two row(s), Options: 1 or 2

**Value**

`cfbd_game_team_stats()` - A data frame with 78 variables:

`game_id`: **integer**. Referencing game id.

`school`: **character**. Team name.

`conference`: **character**. Conference of the team.

`home_away`: **character**. Home/Away Flag.

`opponent`: **character**. Opponent team name.

`opponent_conference`: **character**. Conference of the opponent team.

`points`: **integer**. Team points.

`total_yards`: **character**. Team total yards.

`net_passing_yards`: **character**. Team net passing yards.

`completion_attempts`: **character**. Team completion attempts.

`passing_tds`: **character**. Team passing touchdowns.

`yards_per_pass`: **character**. Team game yards per pass.

`passes_intercepted`: **character**. Team passes intercepted.

`interception_yards`: **character**. Interception yards.

`interception_tds`: **character**. Interceptions returned for a touchdown.

`rushing_attempts`: **character**. Team rushing attempts. see also: ESTABLISH IT.

`rushing_yards`: **character**. Team rushing yards.

`rush_tds`: **character**. Team rushing touchdowns.

`yards_per_rush_attempt`: **character**. Team yards per rush attempt.

`first_downs`: **character**. First downs earned by the team.

`third_down_eff`: **character**. Third down efficiency.

`fourth_down_eff`: **character**. Fourth down efficiency.

`punt_returns`: **character**. Team punt returns.

`punt_return_yards`: **character**. Team punt return yards.

`punt_return_tds`: **character**. Team punt return touchdowns.

`kick_return_yards`: **character**. Team kick return yards.

`kick_return_tds`: **character**. Team kick return touchdowns.

`kick_returns`: **character**. Team kick returns.

`kicking_points`: **character**. Team points from kicking the ball.

`fumbles_recovered`: **character**. Team fumbles recovered.

`fumbles_lost`: **character**. Team fumbles lost.

`total_fumbles`: **character**. Team total fumbles.

`tackles`: **character**. Team tackles.

`tackles_for_loss`: **character**. Team tackles for a loss.

`sacks`: **character**. Team sacks.



qb\_hurries: **character**. Team QB hurries.

interceptions: **character**. Team interceptions.

passes\_deflected: **character**. Team passes deflected.

turnovers: **character**. Team turnovers.

defensive\_tds: **character**. Team defensive touchdowns.

total\_penalties\_yards: **character**. Team total penalty yards.

possession\_time: **character**. Team time of possession.

points\_allowed: **integer**. Points for the opponent.

total\_yards\_allowed: **character**. Opponent total yards.

net\_passing\_yards\_allowed: **character**. Opponent net passing yards.

completion\_attempts\_allowed: **character**. Opponent completion attempts.

passing\_tds\_allowed: **character**. Opponent passing TDs.

yards\_per\_pass\_allowed: **character**. Opponent yards per pass allowed.

passes\_intercepted\_allowed: **character**. Opponent passes intercepted.

interception\_yards\_allowed: **character**. Opponent interception yards.

interception\_tds\_allowed: **character**. Opponent interception TDs.

rushing\_attempts\_allowed: **character**. Opponent rushing attempts.

rushing\_yards\_allowed: **character**. Opponent rushing yards.

rush\_tds\_allowed: **character**. Opponent rushing touchdowns.

yards\_per\_rush\_attempt\_allowed: **character**. Opponent rushing yards per attempt.

first\_downs\_allowed: **character**. Opponent first downs.

third\_down\_eff\_allowed: **character**. Opponent third down efficiency.

fourth\_down\_eff\_allowed: **character**. Opponent fourth down efficiency.

punt\_returns\_allowed: **character**. Opponent punt returns.

punt\_return\_yards\_allowed: **character**. Opponent punt return yards.

punt\_return\_tds\_allowed: **character**. Opponent punt return touchdowns.

kick\_return\_yards\_allowed: **character**. Opponent kick return yards.

kick\_return\_tds\_allowed: **character**. Opponent kick return touchdowns.

kick\_returns\_allowed: **character**. Opponent kick returns.

kicking\_points\_allowed: **character**. Opponent points from kicking.

fumbles\_recovered\_allowed: **character**. Opponent fumbles recovered.

fumbles\_lost\_allowed: **character**. Opponent fumbles lost.

total\_fumbles\_allowed: **character**. Opponent total number of fumbles.

tackles\_allowed: **character**. Opponent tackles.

tackles\_for\_loss\_allowed: **character**. Opponent tackles for loss.

sacks\_allowed: **character**. Opponent sacks.

qb\_hurries\_allowed: **character**. Opponent quarterback hurries.

interceptions\_allowed: **character**. Opponent interceptions.  
 passes\_deflected\_allowed: **character**. Opponent passes deflected.  
 turnovers\_allowed: **character**. Opponent turnovers.  
 defensive\_tds\_allowed: **character**. Opponent defensive touchdowns.  
 total\_penalties\_yards\_allowed: **character**. Opponent total penalty yards.  
 possession\_time\_allowed: **character**. Opponent time of possession.

## Examples

```
try(cfbd_game_team_stats(2019, team = "LSU"))
try(cfbd_game_team_stats(2013, team = "Florida State"))
```

---

cfbd\_game\_weather      **Get weather from games.**

---

## Description

**Get weather from games.**

## Usage

```
cfbd_game_weather(
 year,
 week = NULL,
 season_type = "regular",
 team = NULL,
 conference = NULL
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format(YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	( <i>String</i> default regular): Select Season Type: regular, postseason, or both
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

**Value**

`cfbd_game_weather()` - A data frame with 23 variables:

`game_id`: **integer**. Referencing game id.

`season`: **integer**. Season of the game.

`week`: **integer**. Game week.

`season_type`: **character**. Season type of the game.

`start_date`: **character**. Game date.

`start_time_tbd`: **logical**. TRUE/FALSE flag for if the game's start time is to be determined.

`game_indoors`: **logical**. TRUE/FALSE flag for if the game is indoors

`home_team`: **character**. Home team name.

`home_conference`: **character**. Home team conference.

`away_team`: **character**. Away team name.

`away_conference`: **character**. Away team conference.

`venue_id`: **integer**. Referencing venue id.

`venue`: **character**. Venue name.

`temperature`: **integer**. Temperature.

`dew_point`: **integer**. Dew Point.

`humidity`: **integer**. Humidity.

`precipitation`: **integer**. Precipitation.

`snowfall`: **integer**. Snowfall.

`wind_direction`: **integer**. Wind direction.

`wind_speed`: **integer**. Wind Speed.

`pressure`: **integer**. Pressure.

`weather_condition_code`: **integer**. Weather condition code.

`weather_condition`: **character**. Weather condition.

---

cfbd\_metrics

**CFBD Metrics Endpoint Overview**

---

**Description**

`cfbd_metrics_ppa_games()`: Get team game averages for predicted points added (PPA).

`cfbd_metrics_ppa_players_games()`: Get player game averages for predicted points added (PPA).

`cfbd_metrics_ppa_players_season()`: Get player season averages for predicted points added (PPA).

`cfbd_metrics_ppa_predicted()`: Calculate predicted points using Down and Distance.

`cfbd_metrics_ppa_teams()`: Get team averages for predicted points added (PPA).

`cfbd_metrics_wp_pregame()`: Get pre-game win probability data from CFBD API.

`cfbd_metrics_wp()`: Get win probability chart data from CFBD API.

**Details****Get team game averages for predicted points added (PPA):**

```
cfbd_metrics_ppa_games(year = 2019, team = "TCU")
```

**Get player game averages for predicted points added (PPA):**

```
cfbd_metrics_ppa_players_games(year = 2019, week = 3, team = "TCU")
```

**Get player season averages for predicted points added (PPA):**

```
cfbd_metrics_ppa_players_season(year = 2019, team = "TCU")
```

**Get team averages for predicted points added (PPA):**

```
cfbd_metrics_ppa_teams(year = 2019, team = "TCU")
```

**Get pre-game and post-game win probability data from CFBD API:**

```
cfbd_metrics_wp_pregame(year = 2019, week = 9, team = "Texas A&M")
cfbd_metrics_wp(game_id = 401012356)
```

**Calculate predicted points using down and distance:**

```
cfbd_metrics_ppa_predicted(down = 1, distance = 10)
```

---

cfbd\_metrics\_ppa\_games

**Get team game averages for predicted points added (PPA)**

---

**Description****Get team game averages for predicted points added (PPA)****Usage**

```
cfbd_metrics_ppa_games(
 year,
 week = NULL,
 team = NULL,
 conference = NULL,
 excl_garbage_time = FALSE
)
```

**Arguments**

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE or FALSE)

**Value**

`cfbd_metrics_ppa_games()` - A data frame with 18 variables:

`game_id`: **integer**. Referencing game id.  
`season`: **integer**. Season of the game.  
`week`: **integer**. Game week of the season.  
`conference`: **character**. Conference of the team.  
`team`: **character**. Team name.  
`opponent`: **character**. Team Opponent.  
`off_overall`: **character**. Offense overall predicted points added (PPA).  
`off_passing`: **character**. Offense passing predicted points added (PPA).  
`off_rushing`: **character**. Offense rushing predicted points added (PPA).  
`off_first_down`: **character**. Offense 1st down predicted points added (PPA).  
`off_second_down`: **character**. Offense 2nd down predicted points added (PPA).  
`off_third_down`: **character**. Offense 3rd down predicted points added (PPA).  
`def_overall`: **character**. Defense overall predicted points added (PPA).  
`def_passing`: **character**. Defense passing predicted points added (PPA).  
`def_rushing`: **character**. Defense rushing predicted points added (PPA).  
`def_first_down`: **character**. Defense 1st down predicted points added (PPA).  
`def_second_down`: **character**. Defense 2nd down predicted points added (PPA).  
`def_third_down`: **character**. Defense 3rd down predicted points added (PPA).

**Examples**

```
try(cfbd_metrics_ppa_games(year = 2019, team = "TCU"))
```

---

 cfbd\_metrics\_ppa\_players\_games

### Get player game averages for predicted points added (PPA)

---

#### Description

Get player game averages for predicted points added (PPA)

#### Usage

```
cfbd_metrics_ppa_players_games(
 year = NULL,
 week = NULL,
 team = NULL,
 position = NULL,
 athlete_id = NULL,
 threshold = NULL,
 excl_garbage_time = FALSE
)
```

#### Arguments

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	( <i>String</i> optional): D-I Team. Required if year not provided.
position	( <i>string</i> optional): Position abbreviation of the player you are searching for. Position Group - options include: <ul style="list-style-type: none"> <li>• Offense: QB, RB, FB, TE, OL, G, OT, C, WR</li> <li>• Defense: DB, CB, S, LB, DE, DT, NT, DL</li> <li>• Special Teams: K, P, LS, PK</li> </ul>
athlete_id	( <i>Integer</i> optional): Athlete ID filter for querying a single athlete Can be found using the <a href="#">cfbd_player_info()</a> function.
threshold	( <i>Integer</i> optional): Minimum threshold of plays.
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE or FALSE)

#### Value

[cfbd\\_metrics\\_ppa\\_players\\_games\(\)](#) - A data frame with 9 variables:

season: **integer**. Season of the game.

week: **integer**. Game week of the season.

**name: character.** Athlete name.  
**position: character.** Athlete position.  
**team: character.** Team name.  
**opponent: character.** Team Opponent name.  
**avg\_PPA\_all: double.** Average overall predicted points added (PPA).  
**avg\_PPA\_pass: double.** Average passing predicted points added (PPA).  
**avg\_PPA\_rush: double.** Average rushing predicted points added (PPA).

## Examples

```
try(cfbd_metrics_ppa_players_games(year = 2019, week = 3, team = "TCU"))
```

---

cfbd\_metrics\_ppa\_players\_season

**Get player season averages for predicted points added (PPA)**

---

## Description

**Get player season averages for predicted points added (PPA)**

## Usage

```
cfbd_metrics_ppa_players_season(
 year = NULL,
 team = NULL,
 conference = NULL,
 position = NULL,
 athlete_id = NULL,
 threshold = NULL,
 excl_garbage_time = FALSE
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - S&P+ information by conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
position	( <i>string</i> optional): Position abbreviation of the player you are searching for. Position Group - options include: <ul style="list-style-type: none"> <li>• Offense: QB, RB, FB, TE, OL, G, OT, C, WR</li> </ul>

- Defense: DB, CB, S, LB, DE, DT, NT, DL
- Special Teams: K, P, LS, PK

athlete\_id (Integer optional): Athlete ID filter for querying a single athlete Can be found using the `cfbd_player_info()` function.

threshold (Integer optional): Minimum threshold of plays.

excl\_garbage\_time (Logical default FALSE): Select whether to exclude Garbage Time (TRUE or FALSE)

### Value

`cfbd_metrics_ppa_players_season()` - A data frame with 23 variables:

season: **integer**. Season.

athlete\_id: **character**. Athlete referencing id.

name: **character**. Athlete name.

position: **character**. Athlete Position.

team: **character**. Team name.

conference: **character**. Team conference.

countable\_plays: **integer**. Number of plays which can be counted.

avg\_PPA\_all: **double**. Average overall predicted points added (PPA).

avg\_PPA\_pass: **double**. Average passing predicted points added (PPA).

avg\_PPA\_rush: **double**. Average rushing predicted points added (PPA).

avg\_PPA\_first\_down: **double**. Average 1st down predicted points added (PPA).

avg\_PPA\_second\_down: **double**. Average 2nd down predicted points added (PPA).

avg\_PPA\_third\_down: **double**. Average 3rd down predicted points added (PPA).

avg\_PPA\_standard\_downs: **double**. Average standard down predicted points added (PPA).

avg\_PPA\_passing\_downs: **double**. Average passing down predicted points added (PPA).

total\_PPA\_all: **double**. Total overall predicted points added (PPA).

total\_PPA\_pass: **double**. Total passing predicted points added (PPA).

total\_PPA\_rush: **double**. Total rushing predicted points added (PPA).

total\_PPA\_first\_down: **double**. Total 1st down predicted points added (PPA).

total\_PPA\_second\_down: **double**. Total 2nd down predicted points added (PPA).

total\_PPA\_third\_down: **double**. Total 3rd down predicted points added (PPA).

total\_PPA\_standard\_downs: **double**. Total standard down predicted points added (PPA).

total\_PPA\_passing\_downs: **double**. Total passing down predicted points added (PPA).

### Examples

```
try(cfbd_metrics_ppa_players_season(year = 2019, team = "TCU"))
```



---

`cfbd_metrics_ppa_predicted`**Calculate predicted points using down and distance**

---

**Description****Calculate predicted points using down and distance****Usage**

```
cfbd_metrics_ppa_predicted(down, distance)
```

**Arguments**

```
down (Integer required): Down filter
distance (Integer required): Distance filter
```

**Value**

`cfbd_metrics_ppa_predicted()` - A data frame with 2 variables:

`yard_line`: **integer**. Yards to goal

`predicted_points`: **character**. Predicted points at in that down-distance-yardline scenario

**Examples**

```
try(cfbd_metrics_ppa_predicted(down = 1, distance = 10))
```

```
try(cfbd_metrics_ppa_predicted(down = 3, distance = 10))
```

---

`cfbd_metrics_ppa_teams`**Get team averages for predicted points added (PPA)**

---

**Description****Get team averages for predicted points added (PPA)****Usage**

```
cfbd_metrics_ppa_teams(
 year = NULL,
 team = NULL,
 conference = NULL,
 excl_garbage_time = FALSE
)
```

**Arguments**

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference name - select a valid FBS conference Conference names P5: ACC, Big 12, Big Ten, SEC, Pac-12 Conference names G5 and FBS Independents: Conference USA, Mid-American, Mountain West, FBS Independents, American Athletic
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE or FALSE)

**Value**

`cfbd_metrics_ppa_teams()` - A data frame with 21 variables:

season: **integer.** .

conference: **character.** .

team: **character.** .

off\_overall: **character.** Offense overall predicted points added (PPA).

off\_passing: **character.** Offense passing predicted points added (PPA).

off\_rushing: **character.** Offense rushing predicted points added (PPA).

off\_first\_down: **character.** Offense 1st down predicted points added (PPA).

off\_second\_down: **character.** Offense 2nd down predicted points added (PPA).

off\_third\_down: **character.** Offense 3rd down predicted points added (PPA).

off\_cumulative\_total: **character.** Offense cumulative total predicted points added (PPA).

off\_cumulative\_passing: **character.** Offense cumulative total passing predicted points added (PPA).

off\_cumulative\_rushing: **character.** Offense cumulative total rushing predicted points added (PPA).

def\_overall: **character.** Defense overall predicted points added (PPA).

def\_passing: **character.** Defense passing predicted points added (PPA).

def\_rushing: **character.** Defense rushing predicted points added (PPA).

def\_first\_down: **character.** Defense 1st down predicted points added (PPA).

def\_second\_down: **character.** Defense 2nd down predicted points added (PPA).

def\_third\_down: **character.** Defense 3rd down predicted points added (PPA).

def\_cumulative\_total: **character.** Defense cumulative total predicted points added (PPA).

def\_cumulative\_passing: **character.** Defense cumulative total passing predicted points added (PPA).

def\_cumulative\_rushing: **character.** Defense cumulative total rushing predicted points added (PPA).

**Examples**

```
try(cfbd_metrics_ppa_teams(year = 2019, team = "TCU"))
```

---

cfbd\_metrics\_wp

**Get win probability chart data from API**


---

**Description****Get win probability chart data from API****Usage**

```
cfbd_metrics_wp(game_id)
```

**Arguments**

game\_id *(Integer required)*: Game ID filter for querying a single game Can be found using the [cfbd\\_game\\_info\(\)](#) function

**Value**

[cfbd\\_metrics\\_wp\(\)](#) - A data frame with 16 variables:

play\_id: **character**. Play referencing id.

play\_text: **character**. A text description of the play.

home\_id: **integer**. Home team referencing id.

home: **character**. Home team name.

away\_id: **integer**. Away team referencing id.

away: **character**. Away team name.

spread: **character**. Betting lines provider spread.

home\_ball: **logical**. Home team has the ball.

home\_score: **integer**. Home team score.

away\_score: **integer**. Away team score.

down: **integer**. Down of the play.

distance: **integer**. Distance to the sticks (to 1st down marker of goal-line in goal-to-go situations).

home\_win\_prob: **character**. Home team win probability.

away\_win\_prob: **double**. Away team win probability.

play\_number: **integer**. Game play number.

yard\_line: **integer**. Yard line of the play (0-100 yards).

**Examples**

```
try(cfbd_metrics_wp(game_id = 401012356))
```

---

 cfbd\_metrics\_wp\_pregame

### Get pre-game win probability data from API

---

#### Description

**Get pre-game win probability data from API**

#### Usage

```
cfbd_metrics_wp_pregame(
 year = NULL,
 week = NULL,
 team = NULL,
 season_type = "regular"
)
```

#### Arguments

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	( <i>String</i> optional): D-I Team
season_type	( <i>String</i> default regular): Select Season Type: regular or postseason

#### Value

`cfbd_metrics_wp_pregame()` - A data frame with 9 variables:

season: **integer**. Season of game.

season\_type: **character**. Season type of game.

week: **integer**. Game week of the season.

game\_id: **integer**. Referencing game id.

home\_team: **character**. Home team name.

away\_team: **character**. Away team name.

spread: **integer**. Betting line provider spread.

home\_win\_prob: **double**. Home win probability - pre-game prediction.

away\_win\_prob: **double**. Away win probability - pre-game prediction.

#### Examples

```
try(cfbd_metrics_wp_pregame(year = 2019, week = 9, team = "Texas A&M"))
```

---

cfbd_pbp_data	<b>Get college football play by play data with cfbfastR expected points/win probability added</b>
---------------	---------------------------------------------------------------------------------------------------

---

### Description

Extract college football (D-I) play by play Data - for plays

### Usage

```
cfbd_pbp_data(
 year,
 season_type = "regular",
 week = 1,
 team = NULL,
 play_type = NULL,
 epa_wpa = FALSE,
 ...
)
```

### Arguments

year	Select year, (example: 2018)
season_type	Select Season Type (regular, postseason, both)
week	Select week, this is optional (also numeric)
team	Select team name (example: Texas, Texas A&M, Clemson)
play_type	Select play type (example: see the <a href="#">cfbd_play_type_df</a> )
epa_wpa	Logical parameter (TRUE/FALSE) to return the Expected Points Added/Win Probability Added variables
...	Additional arguments passed to an underlying function.

### Value

A data frame with 351 variables:

```
season: double. .
wk: double. .
id_play: character. .
game_id: integer. .
game_play_number: double. .
half_play_number: double. .
pos_team: character. .
def_pos_team: character. .
```

half: **integer**. .  
period: **integer**. .  
clock.minutes: **integer**. .  
clock.seconds: **integer**. .  
play\_type: **character**. .  
play\_text: **character**. .  
down: **double**. .  
distance: **double**. .  
yards\_to\_goal: **double**. .  
yards\_gained: **double**. .  
penalty\_1st\_conv: **logical**. .  
new\_series: **double**. .  
change\_of\_pos\_team: **double**. .  
lag\_change\_of\_pos\_team: **double**. .  
orig\_play\_type: **character**. .  
lead\_play\_type: **character**. .  
lag\_play\_type: **character**. .  
lag\_play\_type2: **character**. .  
lag\_play\_type3: **character**. .  
row: **integer**. .  
drive\_play\_number: **double**. .  
drive\_event\_number: **double**. .  
lag\_play\_text: **character**. .  
lag\_play\_text2: **character**. .  
lead\_play\_text: **character**. .  
firstD\_by\_kickoff: **double**. .  
firstD\_by\_poss: **double**. .  
firstD\_by\_penalty: **double**. .  
firstD\_by\_yards: **double**. .  
lag\_first\_by\_penalty: **double**. .  
lag\_first\_by\_penalty2: **double**. .  
lag\_first\_by\_yards: **double**. .  
lag\_first\_by\_yards2: **double**. .  
first\_by\_penalty: **double**. .  
first\_by\_yards: **double**. .  
play\_after\_turnover: **double**. .  
lag\_change\_of\_poss: **double**. .

lag\_kickoff\_play: **double.** .  
lag\_punt: **double.** .  
lag\_scoring\_play: **double.** .  
lag\_turnover\_vec: **double.** .  
lag\_downs\_turnover: **double.** .  
lag\_defense\_score\_play: **double.** .  
EPA: **double.** .  
ep\_before: **double.** .  
ep\_after: **double.** .  
wpa: **double.** .  
wp\_before: **double.** .  
wp\_after: **double.** .  
def\_wp\_before: **double.** .  
def\_wp\_after: **double.** .  
penalty\_detail: **character.** .  
yds\_penalty: **double.** .  
downs\_turnover: **double.** .  
turnover: **double.** .  
pos\_score\_diff\_start: **double.** .  
pos\_score\_pts: **double.** .  
pos\_team\_score: **integer.** .  
def\_pos\_team\_score: **integer.** .  
log\_ydstogo: **double.** .  
ExpScoreDiff: **double.** .  
ExpScoreDiff\_Time\_Ratio: **double.** .  
half\_clock.minutes: **double.** .  
TimeSecsRem: **double.** .  
adj\_TimeSecsRem: **double.** .  
Goal\_To\_Go: **logical.** .  
Under\_two: **logical.** .  
home: **character.** .  
away: **character.** .  
home\_wp\_before: **double.** .  
away\_wp\_before: **double.** .  
home\_wp\_after: **double.** .  
away\_wp\_after: **double.** .  
end\_of\_half: **double.** .

pos\_team\_receives\_2H\_kickoff: **double.** .  
lead\_pos\_team: **character.** .  
lag\_pos\_team: **character.** .  
Under\_three: **logical.** .  
down\_end: **integer.** .  
distance\_end: **double.** .  
log\_ydstogo\_end: **double.** .  
yards\_to\_goal\_end: **double.** .  
TimeSecsRem\_end: **double.** .  
Goal\_To\_Go\_end: **logical.** .  
Under\_two\_end: **logical.** .  
def\_EPA: **double.** .  
offense\_score\_play: **double.** .  
defense\_score\_play: **double.** .  
ppa: **character.** .  
yard\_line: **integer.** .  
scoring: **logical.** .  
pos\_team\_timeouts\_rem\_before: **double.** .  
def\_pos\_team\_timeouts\_rem\_before: **double.** .  
pos\_team\_timeouts: **integer.** .  
def\_pos\_team\_timeouts: **integer.** .  
pos\_score\_diff: **integer.** .  
pos\_score\_diff\_start\_end: **double.** .  
offense\_play: **character.** .  
defense\_play: **character.** .  
offense\_receives\_2H\_kickoff: **double.** .  
change\_of\_poss: **double.** .  
score\_pts: **double.** .  
score\_diff\_start: **double.** .  
score\_diff: **integer.** .  
offense\_score: **integer.** .  
defense\_score: **integer.** .  
offense\_conference: **character.** .  
defense\_conference: **character.** .  
off\_timeout\_called: **double.** .  
def\_timeout\_called: **double.** .  
offense\_timeouts: **integer.** .



defense\_timeouts: **integer**. .  
off\_timeouts\_rem\_before: **double**. .  
def\_timeouts\_rem\_before: **double**. .  
rusher\_player\_name: **character**. .  
yds\_rushed: **double**. .  
passer\_player\_name: **character**. .  
receiver\_player\_name: **character**. .  
yds\_receiving: **double**. .  
yds\_sacked: **double**. .  
sack\_players: **character**. .  
sack\_player\_name: **character**. .  
sack\_player\_name2: **character**. .  
pass\_breakup\_player\_name: **character**. .  
interception\_player\_name: **character**. .  
yds\_int\_return: **double**. .  
fumble\_player\_name: **character**. .  
fumble\_forced\_player\_name: **character**. .  
fumble\_recovered\_player\_name: **character**. .  
yds\_fumble\_return: **double**. .  
punter\_player\_name: **character**. .  
yds\_punted: **double**. .  
punt\_returner\_player\_name: **character**. .  
yds\_punt\_return: **double**. .  
yds\_punt\_gained: **double**. .  
punt\_block\_player\_name: **character**. .  
punt\_block\_return\_player\_name: **character**. .  
fg\_kicker\_player\_name: **character**. .  
yds\_fg: **double**. .  
fg\_block\_player\_name: **character**. .  
fg\_return\_player\_name: **character**. .  
kickoff\_player\_name: **character**. .  
yds\_kickoff: **double**. .  
kickoff\_returner\_player\_name: **character**. .  
yds\_kickoff\_return: **double**. .  
new\_id: **double**. .  
orig\_drive\_number: **integer**. .  
drive\_number: **integer**. .

drive\_result\_detailed: **character**. .  
new\_drive\_pts: **double**. .  
drive\_id: **double**. .  
drive\_result: **character**. .  
drive\_start\_yards\_to\_goal: **double**. .  
drive\_end\_yards\_to\_goal: **integer**. .  
drive\_yards: **integer**. .  
drive\_scoring: **double**. .  
drive\_pts: **double**. .  
drive\_start\_period: **integer**. .  
drive\_end\_period: **integer**. .  
drive\_time\_minutes\_start: **integer**. .  
drive\_time\_seconds\_start: **integer**. .  
drive\_time\_minutes\_end: **integer**. .  
drive\_time\_seconds\_end: **integer**. .  
drive\_time\_minutes\_elapsed: **integer**. .  
drive\_time\_seconds\_elapsed: **integer**. .  
drive\_numbers: **double**. .  
number\_of\_drives: **double**. .  
pts\_scored: **double**. .  
drive\_result\_detailed\_flag: **character**. .  
drive\_result2: **character**. .  
drive\_num: **double**. .  
lag\_drive\_result\_detailed: **character**. .  
lead\_drive\_result\_detailed: **character**. .  
lag\_new\_drive\_pts: **double**. .  
id\_drive: **character**. .  
rush: **double**. .  
rush\_td: **double**. .  
pass: **double**. .  
pass\_td: **double**. .  
completion: **double**. .  
pass\_attempt: **double**. .  
target: **double**. .  
sack\_vec: **double**. .  
sack: **double**. .  
int: **double**. .

int\_td: **double**. .  
turnover\_vec: **double**. .  
turnover\_vec\_lag: **double**. .  
turnover\_indicator: **double**. .  
kickoff\_play: **double**. .  
receives\_2H\_kickoff: **double**. .  
missing\_yard\_flag: **logical**. .  
scoring\_play: **double**. .  
td\_play: **double**. .  
touchdown: **double**. .  
safety: **double**. .  
fumble\_vec: **double**. .  
kickoff\_tb: **double**. .  
kickoff\_onside: **double**. .  
kickoff\_oob: **double**. .  
kickoff\_fair\_catch: **double**. .  
kickoff\_downed: **double**. .  
kickoff\_safety: **double**. .  
kick\_play: **double**. .  
punt: **double**. .  
punt\_play: **double**. .  
punt\_tb: **double**. .  
punt\_oob: **double**. .  
punt\_fair\_catch: **double**. .  
punt\_downed: **double**. .  
punt\_safety: **double**. .  
punt\_blocked: **double**. .  
penalty\_safety: **double**. .  
fg\_inds: **double**. .  
fg\_made: **logical**. .  
fg\_make\_prob: **double**. .  
home\_EPA: **double**. .  
away\_EPA: **double**. .  
home\_EPA\_rush: **double**. .  
away\_EPA\_rush: **double**. .  
home\_EPA\_pass: **double**. .  
away\_EPA\_pass: **double**. .

total\_home\_EPA: **double.** .  
total\_away\_EPA: **double.** .  
total\_home\_EPA\_rush: **double.** .  
total\_away\_EPA\_rush: **double.** .  
total\_home\_EPA\_pass: **double.** .  
total\_away\_EPA\_pass: **double.** .  
net\_home\_EPA: **double.** .  
net\_away\_EPA: **double.** .  
net\_home\_EPA\_rush: **double.** .  
net\_away\_EPA\_rush: **double.** .  
net\_home\_EPA\_pass: **double.** .  
net\_away\_EPA\_pass: **double.** .  
success: **double.** .  
epa\_success: **double.** .  
rz\_play: **double.** .  
scoring\_opp: **double.** .  
middle\_8: **logical.** .  
stuffed\_run: **double.** .  
spread: **double.** .  
formatted\_spread: **character.** .  
No\_Score\_before: **double.** .  
FG\_before: **double.** .  
Opp\_FG\_before: **double.** .  
Opp\_Safety\_before: **double.** .  
Opp\_TD\_before: **double.** .  
Safety\_before: **double.** .  
TD\_before: **double.** .  
No\_Score\_after: **double.** .  
FG\_after: **double.** .  
Opp\_FG\_after: **double.** .  
Opp\_Safety\_after: **double.** .  
Opp\_TD\_after: **double.** .  
Safety\_after: **double.** .  
TD\_after: **double.** .  
penalty\_flag: **logical.** .  
penalty\_declined: **logical.** .  
penalty\_no\_play: **logical.** .

penalty\_offset: **logical.** .  
penalty\_text: **logical.** .  
penalty\_play\_text: **character.** .  
lead\_wp\_before2: **double.** .  
wpa\_half\_end: **double.** .  
wpa\_base: **double.** .  
wpa\_base\_nxt: **double.** .  
wpa\_change: **double.** .  
wpa\_change\_nxt: **double.** .  
wpa\_base\_ind: **double.** .  
wpa\_base\_nxt\_ind: **double.** .  
wpa\_change\_ind: **double.** .  
wpa\_change\_nxt\_ind: **double.** .  
lead\_wp\_before: **double.** .  
lead\_pos\_team2: **character.** .  
lag\_change\_of\_pos\_team2: **double.** .  
lag\_punt2: **double.** .  
lag\_score\_diff: **double.** .  
lag\_offense\_play: **character.** .  
lead\_offense\_play: **character.** .  
lead\_offense\_play2: **character.** .  
lag\_pos\_score\_diff: **double.** .  
lag\_off\_timeouts: **double.** .  
lag\_def\_timeouts: **double.** .  
lag\_TimeSecsRem2: **double.** .  
lag\_TimeSecsRem: **double.** .  
lead\_TimeSecsRem: **double.** .  
lead\_TimeSecsRem2: **double.** .  
lag\_yards\_to\_goal2: **integer.** .  
lag\_yards\_to\_goal: **integer.** .  
lead\_yards\_to\_goal: **double.** .  
lead\_yards\_to\_goal2: **integer.** .  
lag\_down2: **double.** .  
lag\_down: **double.** .  
lead\_down: **double.** .  
lead\_down2: **double.** .  
lead\_distance: **double.** .

lead\_distance2: **integer**. .  
lead\_play\_type2: **character**. .  
lead\_play\_type3: **character**. .  
lag\_ep\_before3: **double**. .  
lag\_ep\_before2: **double**. .  
lag\_ep\_before: **double**. .  
lead\_ep\_before: **double**. .  
lead\_ep\_before2: **double**. .  
lag\_ep\_after: **double**. .  
lag\_ep\_after2: **double**. .  
lag\_ep\_after3: **double**. .  
lead\_ep\_after: **double**. .  
lead\_ep\_after2: **double**. .  
play\_number: **integer**. .  
over\_under: **double**. .  
event: **double**. .  
game\_event\_number: **double**. .  
game\_row\_number: **integer**. .  
half\_event: **double**. .  
half\_event\_number: **double**. .  
half\_row\_number: **integer**. .  
lag\_distance3: **integer**. .  
lag\_distance2: **integer**. .  
lag\_distance: **integer**. .  
lag\_yards\_gained3: **integer**. .  
lag\_yards\_gained2: **integer**. .  
lag\_yards\_gained: **integer**. .  
lead\_yards\_gained: **integer**. .  
lead\_yards\_gained2: **integer**. .  
lag\_play\_text3: **character**. .  
lead\_play\_text2: **character**. .  
lead\_play\_text3: **character**. .  
lag\_change\_of\_poss2: **double**. .  
lag\_change\_of\_poss3: **double**. .  
lag\_change\_of\_pos\_team3: **double**. .  
lag\_kickoff\_play2: **double**. .  
lag\_kickoff\_play3: **double**. .

```

lag_punt3: double. .
lag_scoring_play2: double. .
lag_scoring_play3: double. .
lag_turnover_vec2: double. .
lag_turnover_vec3: double. .
lag_downs_turnover2: double. .
lag_downs_turnover3: double. .
drive_event: double. .
lag_first_by_penalty3: double. .
lag_first_by_yards3: double. .

```

cfbd\_play

---

**CFBD Plays Endpoint Overview**


---

**Description**

College football plays data

cfbd\_plays(): CFBD's college football play-by-play.

cfbd\_play\_stats\_player(): Gets player info associated by play.

cfbd\_play\_stats\_types(): Gets CFBD play stat types.

cfbd\_play\_types(): Gets CFBD play types.

**Details**

**Pull first 3 weeks of 2020 season using cfbd\_plays():**

```

year_vector <- 2020
week_vector <- 1:3
weekly_year_df <- expand.grid(year = year_vector, week = week_vector)
tictoc::tic()
year_split <- split(weekly_year_df, weekly_year_df$year)
for (i in 1:length(year_split)) {
 i <- 1

 progressr::with_progress({
 year_split[[i]] <- year_split[[i]] %>%
 dplyr::mutate(
 pbp = purrr::map2(
 .x = year,
 .y = week,
 cfbd_plays,
 season_type = "both"
)
)
 })
}

```

```

)
 Sys.sleep(1)
})
}

tictoc::toc()
year_split <- lapply(year_split, function(x) {
 x %>% tidyr::unnest(pbp, names_repair = "minimal")
})

all_years <- dplyr::bind_rows(year_split)
glimpse(all_years)

```

**Gets player info associated by play:**

```
cfbd_play_stats_player(game_id = 401110722)
```

**Gets CFBD play stat types:**

```
cfbd_play_stats_types()
```

**Gets CFBD play types:**

```
cfbd_play_types()
```

---

cfbd\_players

**CFBD Players Endpoint Overview**


---

**Description**

cfbd\_player\_info(): Player information search.

cfbd\_player\_returning(): Player returning production.

cfbd\_player\_usage(): Player usage.

**Details****Player information lookup:**

```
cfbd_player_info(search_term = "James", position = "DB", team = "Florida State", year = 2017)
```

```
cfbd_player_info(search_term = "Lawrence", team = "Clemson")
```

**Get player returning production:**

```
cfbd_player_returning(year = 2019, team = "Florida State")
```

**Get player usage metrics:**

```
cfbd_player_usage(year = 2019, position = "WR", team = "Florida State")
```



---

 cfbd\_player\_info      **Player information lookup**


---

**Description****Player information lookup****Usage**

```
cfbd_player_info(search_term, position = NULL, team = NULL, year = NULL)
```

**Arguments**

search_term	( <i>String</i> required): Search term for the player you are trying to look up
position	( <i>string</i> optional): Position of the player you are searching for. Position Group - options include: <ul style="list-style-type: none"> <li>• Offense: QB, RB, FB, TE, OL, G, OT, C, WR</li> <li>• Defense: DB, CB, S, LB, DE, DT, NT, DL</li> <li>• Special Teams: K, P, LS, PK</li> </ul>
team	( <i>String</i> optional): Team - Select a valid team, D1 football
year	( <i>Integer</i> optional): Year, 4 digit format (YYYY). If left NULL, API default will only provide results for most recent year of final rosters: 2020

**Value**

`cfbd_player_info()` - A data frame with 12 variables:

**athlete\_id:character.** Unique player identifier athlete\_id.

**team:character.** Team of the player.

**name:character.** Player name.

**first\_name:character.** Player first name.

**last\_name:character.** Player last name.

**weight:integer.** Player weight.

**height:integer.** Player height.

**jersey:integer.** Player jersey number.

**position:character.** Player position.

**home\_town:character.** Player home town.

**team\_color:character.** Player team color.

**team\_color\_secondary:character.** Player team secondary color.

**Examples**

```
try(cfbd_player_info(search_term = "James", position = "DB", team = "Florida State", year = 2017))
```

```
try(cfbd_player_info(search_term = "Lawrence", team = "Clemson"))
```

---

**cfbd\_player\_returning Get player returning production**


---

**Description****Get player returning production****Usage**

```
cfbd_player_returning(year = 2019, team = NULL, conference = NULL)
```

**Arguments**

year	( <i>Integer</i> required, default 2019): Year, 4 digit format (YYYY).
team	( <i>String</i> optional): Team - Select a valid team, D1 football
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

**Value**

`cfbd_player_returning()` - A data frame with 15 variables:

season:**integer**. Returning player season.

team:**character**. Team name.

conference:**character**. Conference of team.

total\_ppa:**double**. Total predicted points added returning.

total\_passing\_ppa:**double**. Total passing predicted points added returning.

total\_receiving\_ppa:**double**. Total receiving predicted points added returning.

total\_rushing\_ppa:**double**. Total rushing predicted points added returning.

percent\_ppa:**double**. Percentage of prior year's predicted points added returning.

percent\_passing\_ppa:**double**. Percentage of prior year's passing predicted points added returning.

percent\_receiving\_ppa:**double**. Percentage of prior year's receiving predicted points added returning.

percent\_rushing\_ppa:**double**. Percentage of prior year's rushing predicted points added returning.

```
usage:double. .
passing_usage:double. .
receiving_usage:double. .
rushing_usage:double. .
```

## Examples

```
try(cfbd_player_returning(year = 2019, team = "Florida State"))
```

---

cfbd_player_usage	<b>Get player usage metrics</b>
-------------------	---------------------------------

---

## Description

### Get player usage metrics

## Usage

```
cfbd_player_usage(
 year = 2019,
 team = NULL,
 conference = NULL,
 position = NULL,
 athlete_id = NULL,
 excl_garbage_time = FALSE
)
```

## Arguments

year	( <i>Integer</i> required, default 2019): Year, 4 digit format (YYYY).
team	( <i>String</i> optional): Team - Select a valid team, D1 football
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
position	( <i>string</i> optional): Position of the player you are searching for. Position Group - options include: <ul style="list-style-type: none"> <li>• Offense: QB, RB, FB, TE, OL, G, OT, C, WR</li> <li>• Defense: DB, CB, S, LB, DE, DT, NT, DL</li> <li>• Special Teams: K, P, LS, PK</li> </ul>
athlete_id	( <i>Integer</i> optional): Athlete ID filter for querying a single athlete Can be found using the <a href="#">cfbd_player_info()</a> function.
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE/FALSE)

**Value**

`cfbd_player_usage()` - A data frame with 14 variables:

`season`: **integer**. Player usage season.

`athlete_id`: **character**. Referencing athlete id.

`name`: **character**. Athlete name.

`position`: **character**. Athlete position.

`team`: **character**. Team name.

`conference`: **character**. Conference of team.

`usg_overall`: **double**. Player usage of overall offense.

`usg_pass`: **double**. Player passing usage percentage.

`usg_rush`: **double**. Player rushing usage percentage.

`usg_1st_down`: **double**. Player first down usage percentage.

`usg_2nd_down`: **double**. Player second down usage percentage.

`usg_3rd_down`: **double**. Player third down usage percentage.

`usg_standard_downs`: **double**. Player standard down usage percentage.

`usg_passing_downs`: **double**. Player passing down usage percentage.

**Examples**

```
try(cfbd_player_usage(year = 2019, position = "WR", team = "Florida State"))
```

---

cfbd\_plays

**Get college football play-by-play data.**

---

**Description**

**Get college football play-by-play data.**

**Usage**

```
cfbd_plays(
 year = 2020,
 season_type = "regular",
 week = 1,
 team = NULL,
 offense = NULL,
 defense = NULL,
 conference = NULL,
 offense_conference = NULL,
 defense_conference = NULL,
 play_type = NULL
)
```

**Arguments**

year	Select year, (example: 2018)
season_type	Select Season Type (regular, postseason, both)
week	Select week, this is optional (also numeric)
team	Select team name (example: Texas, Texas A&M, Clemson)
offense	Select offense name (example: Texas, Texas A&M, Clemson)
defense	Select defense name (example: Texas, Texas A&M, Clemson)
conference	Select conference name (example: ACC, B1G, B12, SEC, PAC, MAC, MWC, CUSA, Ind, SBC, AAC, Western, MVIAA, SWC, PCC, Big 6, etc.)
offense_conference	Select conference name (example: ACC, B1G, B12, SEC, PAC, MAC, MWC, CUSA, Ind, SBC, AAC, Western, MVIAA, SWC, PCC, Big 6, etc.)
defense_conference	Select conference name (example: ACC, B1G, B12, SEC, PAC, MAC, MWC, CUSA, Ind, SBC, AAC, Western, MVIAA, SWC, PCC, Big 6, etc.)
play_type	Select play type (example: see the <a href="#">cfbd_play_type_df</a> )

**Value**

`cfbd_plays()` - A data frame with 29 columns:

`play_id`: **character**. Referencing play id.

`offense`: **character**. Offense on the field.

`offense_conference`: **character**. Conference of the offense on the field.

`defense`: **character**. Defense on the field.

`defense_conference`: **character**. Conference of the defense on the field.

`home`: **character**. Home team.

`away`: **character**. Away team.

`offense_score`: **integer**. Offense's post-play score.

`defense_score`: **integer**. Defense's post-play score.

`game_id`: **integer**. Referencing game id.

`drive_id`: **character**. Referencing drive id.

`drive_number`: **integer**. Drive number in the game.

`play_number`: **integer**. Play number in the game.

`period`: **integer**. Game period (quarter).

`offense_timeouts`: **integer**. Timeouts for the offense at the end of the play.

`defense_timeouts`: **integer**. Timeouts for the defense at the end of the play.

`yard_line`: **integer**. Yard line (~0-50) of the play.

`yards_to_goal`: **integer**. Yards to the goal line (~0-100).

`down`: **integer**. Down of the play.

distance: **integer**. Distance to the sticks, i.e. 1st down or goal-line in goal-to-go situations.

scoring: **logical**. Scoring play flag.

yards\_gained: **integer**. Yards net gained by the offense on the play.

play\_type: **character**. Categorical label of the type of the play.

play\_text: **character**. A text description of the play.

ppa: **character**. Predicted Points Added (calculated by CFBD).

clock.minutes: **integer**. Minutes left on the clock.

clock.seconds: **integer**. Seconds left on the clock.

### Examples

```
Not run:
 try(cfbd_plays(year = 2021, week = 1))

End(Not run)
```

---

cfbd\_play\_stats\_player

**Gets player info associated by play**

---

### Description

**Gets player info associated by play**

### Usage

```
cfbd_play_stats_player(
 year = NULL,
 week = NULL,
 team = NULL,
 game_id = NULL,
 athlete_id = NULL,
 stat_type_id = NULL,
 season_type = "regular"
)
```

### Arguments

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	( <i>String</i> optional): D-I Team
game_id	( <i>Integer</i> optional): Game ID filter for querying a single game Can be found using the <a href="#">cfbd_game_info()</a> function

athlete_id	( <i>Integer</i> optional): Athlete ID filter for querying a single athlete Can be found using the <code>cfbd_player_info()</code> function.
stat_type_id	( <i>Integer</i> optional): Stat Type ID filter for querying a single stat type Can be found using the <code>cfbd_play_stats_types()</code> function
season_type	( <i>String</i> default regular): Select Season Type: regular, postseason, or both

**Value**

`cfbd_play_stats_player()` - A data frame with 54 variables:

play\_id: **character**. Referencing play id.

game\_id: **integer**. Referencing game id.

season: **integer**. Season of the play.

week: **integer**. Week of the play.

opponent: **character**. Opponent of the offense on the play.

team\_score: **integer**. Offense team score.

opponent\_score: **integer**. Defense team score.

drive\_id: **character**. Referencing drive id.

period: **integer**. Game period (quarter) of the play.

yards\_to\_goal: **integer**. Yards to the goal line (~0-100).

down: **integer**. Down of the play.

distance: **integer**. Distance to the sticks, i.e. 1st down or goal-line in goal-to-go situations.

reception\_player\_id: **character**. Pass receiver player reference id.

reception\_player: **character**. Pass receiver player name.

reception\_yds: **integer**. Reception yards.

completion\_player\_id: **character**. Passing player reference id.

completion\_player: **character**. Passing player name.

completion\_yds: **integer**. Passing yards.

rush\_player\_id: **character**. Rushing player reference id.

rush\_player: **character**. Rushing player name.

rush\_yds: **integer**. Rushing yards.

interception\_player\_id: **character**. Intercepting player reference id.

interception\_player: **character**. Intercepting player name.

interception\_stat: **integer**. Intercepting stat.

interception\_thrown\_player\_id: **character**. Interception passing player reference id.

interception\_thrown\_player: **character**. Interception passing player name.

interception\_thrown\_stat: **integer**. Interception thrown stat.

touchdown\_player\_id: **character**. Touchdown scoring player reference id.

touchdown\_player: **character**. Touchdown scoring player name.

**touchdown\_stat: integer.** Touchdown scoring stat.

**incompletion\_player\_id: character.** Incomplete receiver player reference id.

**incompletion\_player: character.** Incomplete receiver player name.

**incompletion\_stat: integer.** Incomplete stat.

**target\_player\_id: character.** Targeted receiver player reference id.

**target\_player: character.** Targeted receiver player name.

**target\_stat: integer.** Target stat.

**fumble\_recovered\_player\_id: logical.** Fumble recovering player reference id.

**fumble\_recovered\_player: logical.** Fumble recovering player name.

**fumble\_recovered\_stat: logical.** Fumble recovered stat.

**fumble\_forced\_player\_id: logical.** Fumble forcing player reference id.

**fumble\_forced\_player: logical.** Fumble forcing player name.

**fumble\_forced\_stat: logical.** Fumble forced stat.

**fumble\_player\_id: logical.** Fumbling player reference id.

**fumble\_player: logical.** Fumbling player name.

**fumble\_stat: logical.** Fumble stat.

**sack\_player\_id: character.** Sacking player(s) reference id.

**sack\_player: character.** Sacking player(s) name.

**sack\_stat: integer.** Sack stat.

**sack\_taken\_player\_id: character.** Sack taking player reference id.

**sack\_taken\_player: character.** Sack taking player name.

**sack\_taken\_stat: integer.** Sack taken stat.

**pass\_breakup\_player\_id: logical.** Pass breakup player reference id.

**pass\_breakup\_player: logical.** Pass breakup player name.

**pass\_breakup\_stat: logical.** Pass breakup (PBU) stat.

### Examples

```
try(cfbd_play_stats_player(game_id = 401110722))
```



---

**cfbd\_play\_stats\_types** Get college football mapping for play stats types

---

**Description**

Get college football mapping for play stats types

**Usage**

```
cfbd_play_stats_types()
```

**Value**

`cfbd_play_stats_types()` - A data frame with 22 rows and 2 variables:

`play_stat_type_id`: **integer** Referencing play stat type ID.

`name`: **character** Type of play stats.

**Examples**

```
try(cfbd_play_stats_types())
```

---

**cfbd\_play\_types** Get college football mapping for play types

---

**Description**

Get college football mapping for play types

**Usage**

```
cfbd_play_types()
```

**Value**

`cfbd_play_types()` - A data frame with 48 rows and 3 variables:

`play_type_id`: **integer** Referencing play type id.

`text`: **character** play type description.

`abbreviation`: **character** play type abbreviation used for function call

**Examples**

```
try(cfbd_play_types())
```

---

`cfbd_rankings`**Get historical Coaches and AP poll data**

---

## Description

### Get historical Coaches and AP poll data

## Usage

```
cfbd_rankings(year, week = NULL, season_type = "regular")
```

## Arguments

`year` (*Integer* required): Year, 4 digit format (YYYY)  
`week` (*Integer* optional): Week, values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)  
`season_type` (*String* default regular): Season type - regular or postseason

## Value

`cfbd_rankings()` - A data frame with 9 variables:

`season`: **integer**. Rankings season.  
`season_type`: **character**. Season type of rankings.  
`week`: **integer**. Week of rankings.  
`poll`: **character**. Name of the poll.  
`rank`: **integer**. Rank in the poll.  
`school`: **character**. Team name.  
`conference`: **character**. Conference of the team.  
`first_place_votes`: **integer**. Number of first place votes.  
`points`: **integer**. Total poll points.

## Examples

```
try(cfbd_rankings(year = 2019, week = 12))

try(cfbd_rankings(year = 2018, week = 14))

try(cfbd_rankings(year = 2013, season_type = "postseason"))
```

**Description**

cfbd\_rankings(): Gets Historical CFB poll rankings at a specific week.

cfbd\_ratings\_sp(): Get SP historical rating data.

cfbd\_ratings\_sp\_conference(): Get SP conference-level historical rating data.

cfbd\_ratings\_srs(): Get SRS historical rating data.

**Get historical Coaches and AP poll data:**

```
cfbd_rankings(year = 2019, week = 12)
```

```
cfbd_rankings(year = 2018, week = 14)
```

```
cfbd_rankings(year = 2013, season_type = "postseason")
```

**Get SP historical rating data:**

At least one of **year** or **team** must be specified for the function to run

```
cfbd_ratings_sp(year = 2018)
```

```
cfbd_ratings_sp(team = "Texas A&M")
```

```
cfbd_ratings_sp(year = 2019, team = "Texas")
```

**Get conference level SP historical rating data:**

```
cfbd_ratings_sp_conference(year = 2019)
```

```
cfbd_ratings_sp_conference(year = 2012, conference = "SEC")
```

```
cfbd_ratings_sp_conference(year = 2016, conference = "ACC")
```

**Get SRS historical rating data:**

At least one of **year** or **team** must be specified for the function to run

```
cfbd_ratings_srs(year = 2019, team = "Texas")
```

```
cfbd_ratings_srs(year = 2018, conference = "SEC")
```

**Get Elo historical rating data:**

Acquire the CFBD calculated elo ratings data by **team**, **year**, **week**, and **conference**

```
cfbd_ratings_elo(year = 2019, team = "Texas")
```

```
cfbd_ratings_elo(year = 2018, conference = "SEC")
```

---

**cfbd\_ratings\_elo**      **Get Elo historical rating data**

---

**Description**

Acquire the CFBD calculated elo ratings data by team, year, week, and conference

**Usage**

```
cfbd_ratings_elo(year = NULL, week = NULL, team = NULL, conference = NULL)
```

**Arguments**

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
week	( <i>Integer</i> optional): Maximum Week of ratings.
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - SRS information by conference Conference abbreviations P5: ACC, B12, BIG, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

**Value**

`cfbd_ratings_elo()` - A data frame with 6 variables:

year: **integer**. Season of the SRS rating.

team: **character**. Team name.

conference: **character**. Conference of the team.

division: **logical**. Division in the conference for the team.

rating: **double**. Simple Rating System (SRS) rating.

ranking: **integer**. Simple Rating System ranking within the group returned.

**Examples**

```
try(cfbd_ratings_elo(year = 2019, team = "Texas"))
```

```
try(cfbd_ratings_elo(year = 2018, conference = "SEC"))
```

---

cfbd_ratings_sp	<b>Get SP historical rating data</b>
-----------------	--------------------------------------

---

**Description**

At least one of **year** or **team** must be specified for the function to run

**Usage**

```
cfbd_ratings_sp(year = NULL, team = NULL)
```

**Arguments**

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): D-I Team

**Value**

`cfbd_ratings_sp()` - A data frame with 26 variables:

**year: integer.** Season of the ratings.

**team: character.** Team name.

**conference: character.** Conference of the team.

**rating: double.** SP+ rating.

**ranking: integer.** Ranking in the SP+ ratings.

**second\_order\_wins: logical.** Total second-order wins - Not available for recent seasons.

**sos: logical.** Strength of schedule - Not available for recent seasons.

**offense\_ranking: integer.** Overall offense ranking.

**offense\_rating: double.** Overall offense rating.

**offense\_success: logical.** Offense success rating - Not available for recent seasons.

**offense\_explosiveness: logical.** Offense explosiveness rating - Not available for recent seasons.

**offense\_rushing: logical.** Offense rushing rating - Not available for recent seasons.

**offense\_passing: logical.** Offense passing rating - Not available for recent seasons.

**offense\_standard\_downs: logical.** Offense standard downs rating - Not available for recent seasons.

**offense\_passing\_downs: logical.** Offensive passing downs rating - Not available for recent seasons.

**offense\_run\_rate: logical.** Offense rushing rate - Not available for recent seasons.

**offense\_pace: logical.** Offense pace factor - Not available for recent seasons.

**defense\_ranking: integer.** Overall defense ranking.

**defense\_rating: double.** Overall defense rating.

defense\_success: **logical**. Defense success rating - Not available for recent seasons.

defense\_explosiveness: **logical**. Defense explosiveness rating - Not available for recent seasons.

defense\_rushing: **logical**. Defense rushing rating - Not available for recent seasons.

defense\_passing: **logical**. Defense passing rating - Not available for recent seasons.

defense\_standard\_downs: **logical**. Defense standard downs rating - Not available for recent seasons.

defense\_passing\_downs: **logical**. Defensive passing downs rating - Not available for recent seasons.

defense\_havoc\_total: **logical**. Total defensive havoc rate - Not available for recent seasons.

defense\_havoc\_front\_seven: **logical**. Defense havoc rate from front 7 players - Not available for recent seasons.

defense\_havoc\_db: **logical**. Defense havoc rate from defensive backs - Not available for recent seasons.

special\_teams\_rating: **double**. Special teams rating.

### Examples

```
try(cfbd_ratings_sp(year = 2018))
try(cfbd_ratings_sp(team = "Texas A&M"))
try(cfbd_ratings_sp(year = 2019, team = "Texas"))
```

---

cfbd\_ratings\_sp\_conference

### Get conference level SP historical rating data

---

### Description

**Get conference level SP historical rating data**

### Usage

```
cfbd_ratings_sp_conference(year = NULL, conference = NULL)
```

### Arguments

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
conference	( <i>String</i> optional): Conference abbreviation - S&P+ information by conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

**Value**

`cfbd_ratings_sp_conference()` - A data frame with 25 variables:

`year`: **integer**. Season of the conference rating.

`conference`: **character**. Conference name.

`rating`: **double**. Conference SP+ rating.

`second_order_wins`: **logical**. Second-order wins for the conference - Not available for recent seasons.

`sos`: **logical**. Strength of schedule for the conference - Not available for recent seasons..

`offense_rating`: **double**. Overall offense rating for the conference.

`offense_success`: **logical**. Offense success rating for the conference - Not available for recent seasons.

`offense_explosiveness`: **logical**. Offense explosiveness rating for the conference - Not available for recent seasons.

`offense_rushing`: **logical**. Offense rushing rating for the conference - Not available for recent seasons.

`offense_passing`: **logical**. Offense passing rating for the conference - Not available for recent seasons.

`offense_standard_downs`: **logical**. Offense standard downs rating for the conference - Not available for recent seasons.

`offense_passing_downs`: **logical**. Offensive passing downs rating for the conference - Not available for recent seasons.

`offense_run_rate`: **logical**. Offense rushing rate for the conference - Not available for recent seasons.

`offense_pace`: **logical**. Offense pace factor for the conference - Not available for recent seasons.

`defense_ranking`: **integer**. Overall defense ranking for the conference.

`defense_rating`: **double**. Overall defense rating for the conference.

`defense_success`: **logical**. Defense success rating for the conference - Not available for recent seasons.

`defense_explosiveness`: **logical**. Defense explosiveness rating for the conference - Not available for recent seasons.

`defense_rushing`: **logical**. Defense rushing rating for the conference - Not available for recent seasons.

`defense_passing`: **logical**. Defense passing rating for the conference - Not available for recent seasons.

`defense_standard_downs`: **logical**. Defense standard downs rating for the conference - Not available for recent seasons.

`defense_passing_downs`: **logical**. Defensive passing downs rating for the conference - Not available for recent seasons.

`defense_havoc_total`: **logical**. Total defensive havoc rate for the conference - Not available for recent seasons.

defense\_havoc\_front\_seven: **logical**. Defense havoc rate from front 7 players for the conference - Not available for recent seasons.

defense\_havoc\_db: **logical**. Defense havoc rate from defensive backs for the conference - Not available for recent seasons.

special\_teams\_rating: **double**. Special teams rating for the conference.

### Examples

```
try(cfbd_ratings_sp_conference(year = 2019))
```

```
try(cfbd_ratings_sp_conference(year = 2012, conference = "SEC"))
```

```
try(cfbd_ratings_sp_conference(year = 2016, conference = "ACC"))
```

---

## cfbd\_ratings\_srs      **Get SRS historical rating data**

---

### Description

At least one of **year** or **team** must be specified for the function to run

### Usage

```
cfbd_ratings_srs(year = NULL, team = NULL, conference = NULL)
```

### Arguments

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - SRS information by conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

### Value

`cfbd_ratings_srs()` - A data frame with 6 variables:

year: **integer**. Season of the SRS rating.

team: **character**. Team name.

conference: **character**. Conference of the team.

division: **logical**. Division in the conference for the team.

rating: **double**. Simple Rating System (SRS) rating.

ranking: **integer**. Simple Rating System ranking within the group returned.



## Examples

```
try(cfbd_ratings_srs(year = 2019, team = "Texas"))
try(cfbd_ratings_srs(year = 2018, conference = "SEC"))
```

---

cfbd\_recruiting

## CFB Recruiting Endpoint Overview

---

### Description

`cfbd_recruiting_player()`: Get college football player recruiting information for a single year with filters available for team, recruit type, state and position.

`cfbd_recruiting_position()`: Get college football position group recruiting information .

`cfbd_recruiting_team()`: Get college football recruiting team rankings information.

#### **Get player recruiting rankings:**

Get college football player recruiting information for a single year with filters available for team, recruit type, state and position.

```
cfbd_recruiting_player(2018, team = "Texas")
```

```
cfbd_recruiting_player(2016, recruit_type = "JUCO")
```

```
cfbd_recruiting_player(2020, recruit_type = "HighSchool", position = "OT", state = "FL")
```

#### **Get college football position group recruiting information.:**

```
cfbd_recruiting_position(2018, team = "Texas")
```

```
cfbd_recruiting_position(2016, 2020, team = "Virginia")
```

```
cfbd_recruiting_position(2015, 2020, conference = "SEC")
```

#### **Get college football recruiting team rankings information.:**

```
cfbd_recruiting_team(2018, team = "Texas")
```

```
cfbd_recruiting_team(2016, team = "Virginia")
```

```
cfbd_recruiting_team(2016, team = "Texas A&M")
```

```
cfbd_recruiting_team(2011)
```

**Details**

Gets CFB team recruiting ranks with filters available for year and team. At least one of **year** or **team** must be specified for the function to run

If you would like CFB recruiting information for players, please see the [cfbd\\_recruiting\\_player\(\)](#) function

If you would like to get CFB recruiting information based on position groups during a time period for all FBS teams, please see the [cfbd\\_recruiting\\_position\(\)](#) function.

[cfbd\\_recruiting\\_player\(\)](#) - At least one of **year** or **team** must be specified for the function to run

[cfbd\\_recruiting\\_position\(\)](#) - If only start\_year is provided, function will get CFB recruiting information based on position groups during that year for all FBS teams.

---

cfbd\_recruiting\_player

**Get player recruiting rankings**

---

**Description****Get player recruiting rankings****Usage**

```
cfbd_recruiting_player(
 year = NULL,
 team = NULL,
 recruit_type = "HighSchool",
 state = NULL,
 position = NULL
)
```

**Arguments**

year	( <i>Integer</i> optional): Year, 4 digit format (YYYY) - Minimum: 2000, Maximum: 2020 currently
team	( <i>String</i> optional): D-I Team
recruit_type	( <i>String</i> optional): default API return is 'HighSchool', other options include 'JUCO' or 'PrepSchool' - For position group information
state	( <i>String</i> optional): Two letter State abbreviation
position	( <i>String</i> optional): Position Group - options include: <ul style="list-style-type: none"> <li>• Offense: 'PRO', 'DUAL', 'RB', 'FB', 'TE', 'OT', 'OG', 'OC', 'WR'</li> <li>• Defense: 'CB', 'S', 'OLB', 'ILB', 'WDE', 'SDE', 'DT'</li> <li>• Special Teams: 'K', 'P'</li> </ul>

**Value**

`cfbd_recruiting_player()` - A data frame with 14 variables:

`id`: **integer**. Referencing id - 247Sports.

`athlete_id` Athlete referencing id.

`recruit_type`: **character**. High School, Prep School, or Junior College.

`year`: **integer**. Recruit class year.

`ranking`: **integer**. Recruit Ranking.

`name`: **character**. Recruit Name.

`school`: **character**. School recruit attended.

`committed_to`: **character**. School the recruit is committed to.

`position`: **character**. Recruit position.

`height`: **double**. Recruit height.

`weight`: **integer**. Recruit weight.

`stars`: **integer**. Recruit stars.

`rating`: **double**. 247 composite rating.

`city`: **character**. Hometown of the recruit.

`state_province`: **character**. Hometown state of the recruit.

`country`: **character**. Hometown country of the recruit.

`hometown_info_latitude`: **character**. Hometown latitude.

`hometown_info_longitude`: **character**. Hometown longitude.

`hometown_info_fips_code`: **character**. Hometown FIPS code.

**Examples**

```
try(cfbd_recruiting_player(2018, team = "Texas"))
```

```
try(cfbd_recruiting_player(2016, recruit_type = "JUCO"))
```

```
try(cfbd_recruiting_player(2020, recruit_type = "HighSchool", position = "OT", state = "FL"))
```

---

cfbd\_recruiting\_position

**Get college football position group recruiting information.**

---

## Description

**Get college football position group recruiting information.**

## Usage

```
cfbd_recruiting_position(
 start_year = NULL,
 end_year = NULL,
 team = NULL,
 conference = NULL
)
```

## Arguments

start_year	(Integer optional): Start Year, 4 digit format (YYYY). <i>Note: 2000 is the minimum value</i>
end_year	(Integer optional): End Year, 4 digit format (YYYY). <i>Note: 2020 is the maximum value currently</i>
team	(String optional): Team - Select a valid team, D-I football
conference	(String optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC

## Value

`cfbd_recruiting_position()` - A data frame with 7 variables:

**team: character.** Recruiting team.

**conference: character.** Recruiting team conference.

**position\_group: character.** Position group of the recruits.

**avg\_rating: double.** Average rating of the recruits in the position group.

**total\_rating: double.** Sum of the ratings of the recruits in the position group.

**commits: integer.** Number of commits in the position group.

**avg\_stars: double.** Average stars of the recruits in the position group.

## Examples

```
try(cfbd_recruiting_position(2018, team = "Texas"))
try(cfbd_recruiting_position(2016, 2020, team = "Virginia"))
try(cfbd_recruiting_position(2015, 2020, conference = "SEC"))
```

---

cfbd\_recruiting\_team **Get college football recruiting team rankings information.**

---

## Description

**Get college football recruiting team rankings information.**

## Usage

```
cfbd_recruiting_team(year = NULL, team = NULL)
```

## Arguments

year *(Integer optional):* Recruiting Class Year, 4 digit format (YYYY). *Note: 2000 is the minimum value*

team *(String optional):* Team - Select a valid team, D1 football

## Value

`cfbd_recruiting_team()` - A data frame with 4 variables:

year: **integer.** Recruiting class year.  
rank: **integer.** Team Recruiting rank.  
team: **character.** Recruiting Team.  
points: **character.** Team talent points.

## Examples

```
try(cfbd_recruiting_team(2018, team = "Texas"))
try(cfbd_recruiting_team(2016, team = "Virginia"))
try(cfbd_recruiting_team(2016, team = "Texas A&M"))
try(cfbd_recruiting_team(2011))
```

---

cfbd\_recruiting\_transfer\_portal

### Get Transfer Portal Data

---

#### Description

##### Get Transfer Portal Data

#### Usage

```
cfbd_recruiting_transfer_portal(year)
```

#### Arguments

year *(Integer required)*: Year of the offseason (2021 would return transfer portal data starting from the end of the 2020 season), 4 digit format (YYYY).

#### Value

`cfbd_recruiting_transfer_portal()` - A data frame with 11 variables:

season:**integer** Season of transfer.

first\_name:**character**. Player's first name.

last\_name:**character**. Player's last name.

position:**character**. Player position.

origin:**character**. original team.

destination:**character**. new team.

transfer\_date:**character**. Date of transfer.

rating:**character**. Player's 247 transfer rating.

stars:**integer** Player's star rating.

eligibility:**character**. Player's eligibility status.

#### Examples

```
try(cfbd_recruiting_transfer_portal(year = 2021))
```

**Description**

cfbd\_stats\_categories(): Get college football mapping for stats categories.

cfbd\_stats\_season\_team(): Get season statistics by team.

cfbd\_stats\_season\_advanced(): Get season advanced statistics by team.

cfbd\_stats\_game\_advanced(): Get game advanced stats.

cfbd\_stats\_season\_player(): Get season statistics by player.

**Details****Get game advanced stats:**

cfbd\_stats\_game\_advanced(year = 2018, week = 12, team = "Texas A&M")

cfbd\_stats\_game\_advanced(2019, team = "LSU")

cfbd\_stats\_game\_advanced(2013, team = "Florida State")

**Get season advanced statistics by team:**

cfbd\_stats\_season\_advanced(2019, team = "LSU")

**Get season statistics by player:**

cfbd\_stats\_season\_player(year = 2018, conference = "B12", start\_week = 1, end\_week = 7)

cfbd\_stats\_season\_player(2019, team = "LSU", category = "passing")

cfbd\_stats\_season\_player(2013, team = "Florida State", category = "passing")

**Get season statistics by team:**

cfbd\_stats\_season\_team(year = 2018, conference = "B12", start\_week = 1, end\_week = 8)

cfbd\_stats\_season\_team(2019, team = "LSU")

cfbd\_stats\_season\_team(2013, team = "Florida State")

**Get stats categories:**

This function identifies all Stats Categories identified in the regular stats endpoint.

cfbd\_stats\_categories()

---

cfbd\_stats\_categories **Get stats categories**

---

### Description

This function identifies all Stats Categories identified in the regular stats endpoint.

### Usage

```
cfbd_stats_categories()
```

### Value

`cfbd_stats_categories()` A data frame with 38 values:

**name** Statistics Categories

### Examples

```
try(cfbd_stats_categories())
```

---

cfbd\_stats\_game\_advanced  
**Get game advanced stats**

---

### Description

**Get game advanced stats**

### Usage

```
cfbd_stats_game_advanced(
 year,
 week = NULL,
 team = NULL,
 opponent = NULL,
 excl_garbage_time = FALSE,
 season_type = "both"
)
```



**Arguments**

year	( <i>Integer</i> required): Year, 4 digit format(YYYY)
week	( <i>Integer</i> optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
team	( <i>String</i> optional): D-I Team
opponent	( <i>String</i> optional): Opponent D-I Team
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE/FALSE)
season_type	( <i>String</i> default both): Select Season Type: regular, postseason, or both.

**Value**

`cfbd_stats_game_advanced()` - A data frame with 60 variables:

`game_id`: **integer**. Referencing game id.

`week`: **integer**. Game week of the season.

`team`: **character**. Team name.

`opponent`: **character**. Opponent team name.

`off_plays`: **integer**. Offense plays in the game.

`off_drives`: **integer**. Offense drives in the game.

`off_ppa`: **double**. Offense predicted points added (PPA).

`off_total_ppa`: **double**. Offense total predicted points added (PPA).

`off_success_rate`: **double**. Offense success rate.

`off_explosiveness`: **double**. Offense explosiveness rate.

`off_power_success`: **double**. Offense power success rate.

`off_stuff_rate`: **double**. Opponent stuff rate.

`off_line_yds`: **double**. Offensive line yards.

`off_line_yds_total`: **integer**. Offensive line yards total.

`off_second_lvl_yds`: **double**. Offense second-level yards.

`off_second_lvl_yds_total`: **integer**. Offense second-level yards total.

`off_open_field_yds`: **integer**. Offense open field yards.

`off_open_field_yds_total`: **integer**. Offense open field yards total.

`off_standard_downs_ppa`: **double**. Offense standard downs predicted points added (PPA).

`off_standard_downs_success_rate`: **double**. Offense standard downs success rate.

`off_standard_downs_explosiveness`: **double**. Offense standard downs explosiveness rate.

`off_passing_downs_ppa`: **double**. Offense passing downs predicted points added (PPA).

`off_passing_downs_success_rate`: **double**. Offense passing downs success rate.

`off_passing_downs_explosiveness`: **double**. Offense passing downs explosiveness rate.

`off_rushing_plays_ppa`: **double**. Offense rushing plays predicted points added (PPA).

off\_rushing\_plays\_total\_ppa: **double**. Offense rushing plays total predicted points added (PPA).  
off\_rushing\_plays\_success\_rate: **double**. Offense rushing plays success rate.  
off\_rushing\_plays\_explosiveness: **double**. Offense rushing plays explosiveness rate.  
off\_passing\_plays\_ppa: **double**. Offense passing plays predicted points added (PPA).  
off\_passing\_plays\_total\_ppa: **double**. Offense passing plays total predicted points added (PPA).  
off\_passing\_plays\_success\_rate: **double**. Offense passing plays success rate.  
off\_passing\_plays\_explosiveness: **double**. Offense passing plays explosiveness rate.  
def\_plays: **integer**. Defense plays in the game.  
def\_drives: **integer**. Defense drives in the game.  
def\_ppa: **double**. Defense predicted points added (PPA).  
def\_total\_ppa: **double**. Defense total predicted points added (PPA).  
def\_success\_rate: **double**. Defense success rate.  
def\_explosiveness: **double**. Defense explosiveness rate.  
def\_power\_success: **double**. Defense power success rate.  
def\_stuff\_rate: **double**. Opponent stuff rate.  
def\_line\_yds: **double**. Offensive line yards.  
def\_line\_yds\_total: **integer**. Offensive line yards total.  
def\_second\_lvl\_yds: **double**. Defense second-level yards.  
def\_second\_lvl\_yds\_total: **integer**. Defense second-level yards total.  
def\_open\_field\_yds: **integer**. Defense open field yards.  
def\_open\_field\_yds\_total: **integer**. Defense open field yards total.  
def\_standard\_downs\_ppa: **double**. Defense standard downs predicted points added (PPA).  
def\_standard\_downs\_success\_rate: **double**. Defense standard downs success rate.  
def\_standard\_downs\_explosiveness: **double**. Defense standard downs explosiveness rate.  
def\_passing\_downs\_ppa: **double**. Defense passing downs predicted points added (PPA).  
def\_passing\_downs\_success\_rate: **double**. Defense passing downs success rate.  
def\_passing\_downs\_explosiveness: **double**. Defense passing downs explosiveness rate.  
def\_rushing\_plays\_ppa: **double**. Defense rushing plays predicted points added (PPA).  
def\_rushing\_plays\_total\_ppa: **double**. Defense rushing plays total predicted points added (PPA).  
def\_rushing\_plays\_success\_rate: **double**. Defense rushing plays success rate.  
def\_rushing\_plays\_explosiveness: **double**. Defense rushing plays explosiveness rate.  
def\_passing\_plays\_ppa: **double**. Defense passing plays predicted points added (PPA).  
def\_passing\_plays\_total\_ppa: **double**. Defense passing plays total predicted points added (PPA).  
def\_passing\_plays\_success\_rate: **double**. Defense passing plays success rate.  
def\_passing\_plays\_explosiveness: **double**. Defense passing plays explosiveness rate.

**Examples**

```
try(cfbd_stats_game_advanced(year = 2018, week = 12, team = "Texas A&M"))
try(cfbd_stats_game_advanced(2019, team = "LSU"))
try(cfbd_stats_game_advanced(2013, team = "Florida State"))
```

---

cfbd\_stats\_season\_advanced

**Get season advanced statistics by team****Description****Get season advanced statistics by team****Usage**

```
cfbd_stats_season_advanced(
 year,
 team = NULL,
 excl_garbage_time = FALSE,
 start_week = NULL,
 end_week = NULL
)
```

**Arguments**

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
team	( <i>String</i> optional): D-I Team
excl_garbage_time	( <i>Logical</i> default FALSE): Select whether to exclude Garbage Time (TRUE/FALSE)
start_week	( <i>Integer</i> optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	( <i>Integer</i> optional): Ending Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier

**Value**

`cfbd_stats_season_advanced()` - A data frame with 81 variables:

season: **integer**. Season of the statistics.

team: **character**. Team name.

conference: **character**. Conference of the team.

off\_plays: **integer**. Offense plays in the game.

off\_drives: **integer**. Offense drives in the game.

off\_ppa: **double**. Offense predicted points added (PPA).

off\_total\_ppa: **double**. Offense total predicted points added (PPA).

off\_success\_rate: **double**. Offense success rate.

off\_explosiveness: **double**. Offense explosiveness rate.

off\_power\_success: **double**. Offense power success rate.

off\_stuff\_rate: **double**. Offense rushing stuff rate.

off\_line\_yds: **double**. Offensive line yards.

off\_line\_yds\_total: **integer**. Offensive line yards total.

off\_second\_lvl\_yds: **double**. Offense second-level yards.

off\_second\_lvl\_yds\_total: **integer**. Offense second-level yards total.

off\_open\_field\_yds: **integer**. Offense open field yards.

off\_open\_field\_yds\_total: **integer**. Offense open field yards total.

off\_total\_opportunities: **integer**. Offense opportunities.

off\_pts\_per\_opp: **double**. Offense points per scoring opportunity.

off\_field\_pos\_avg\_start: **double**. Offense starting average field position.

off\_field\_pos\_avg\_predicted\_points: **double**. Offense starting average field position predicted points (PP).

off\_havoc\_total: **double**. Offense havoc rate total.

off\_havoc\_front\_seven: **double**. Offense front-7 havoc rate.

off\_havoc\_db: **double**. Offense defensive back havoc rate.

off\_standard\_downs\_rate: **double**. Offense standard downs rate.

off\_standard\_downs\_ppa: **double**. Offense standard downs predicted points added (PPA).

off\_standard\_downs\_success\_rate: **double**. Offense standard downs success rate.

off\_standard\_downs\_explosiveness: **double**. Offense standard downs explosiveness rate.

off\_passing\_downs\_rate: **double**. Offense passing downs rate.

off\_passing\_downs\_ppa: **double**. Offense passing downs predicted points added (PPA).

off\_passing\_downs\_success\_rate: **double**. Offense passing downs success rate.

off\_passing\_downs\_explosiveness: **double**. Offense passing downs explosiveness rate.

off\_rushing\_plays\_rate: **double**. Offense rushing plays rate.

off\_rushing\_plays\_ppa: **double**. Offense rushing plays predicted points added (PPA).

off\_rushing\_plays\_total\_ppa: **double**. Offense rushing plays total predicted points added (PPA).

off\_rushing\_plays\_success\_rate: **double**. Offense rushing plays success rate.

off\_rushing\_plays\_explosiveness: **double**. Offense rushing plays explosiveness rate.

off\_passing\_plays\_rate: **double**. Offense passing plays rate.

off\_passing\_plays\_ppa: **double**. Offense passing plays predicted points added (PPA).

off\_passing\_plays\_total\_ppa: **double**. Offense passing plays total predicted points added (PPA).  
off\_passing\_plays\_success\_rate: **double**. Offense passing plays success rate.  
off\_passing\_plays\_explosiveness: **double**. Offense passing plays explosiveness rate.  
def\_plays: **integer**. Defense plays in the game.  
def\_drives: **integer**. Defense drives in the game.  
def\_ppa: **double**. Defense predicted points added (PPA).  
def\_total\_ppa: **double**. Defense total predicted points added (PPA).  
def\_success\_rate: **double**. Defense success rate.  
def\_explosiveness: **double**. Defense explosiveness rate.  
def\_power\_success: **double**. Defense power success rate.  
def\_stuff\_rate: **double**. Defense rushing stuff rate.  
def\_line\_yds: **double**. Defense Offensive line yards allowed.  
def\_line\_yds\_total: **integer**. Defense Offensive line yards total allowed.  
def\_second\_lvl\_yds: **double**. Defense second-level yards.  
def\_second\_lvl\_yds\_total: **integer**. Defense second-level yards total.  
def\_open\_field\_yds: **integer**. Defense open field yards.  
def\_open\_field\_yds\_total: **integer**. Defense open field yards total.  
def\_total\_opportunities: **integer**. Defense opportunities.  
def\_pts\_per\_opp: **double**. Defense points per scoring opportunity.  
def\_field\_pos\_avg\_start: **double**. Defense starting average field position.  
def\_field\_pos\_avg\_predicted\_points: **double**. Defense starting average field position predicted points (PP).  
def\_havoc\_total: **double**. Defense havoc rate total.  
def\_havoc\_front\_seven: **double**. Defense front-7 havoc rate.  
def\_havoc\_db: **double**. Defense defensive back havoc rate.  
def\_standard\_downs\_rate: **double**. Defense standard downs rate.  
def\_standard\_downs\_ppa: **double**. Defense standard downs predicted points added (PPA).  
def\_standard\_downs\_success\_rate: **double**. Defense standard downs success rate.  
def\_standard\_downs\_explosiveness: **double**. Defense standard downs explosiveness rate.  
def\_passing\_downs\_rate: **double**. Defense passing downs rate.  
def\_passing\_downs\_ppa: **double**. Defense passing downs predicted points added (PPA).  
def\_passing\_downs\_success\_rate: **double**. Defense passing downs success rate.  
def\_passing\_downs\_explosiveness: **double**. Defense passing downs explosiveness rate.  
def\_rushing\_plays\_rate: **double**. Defense rushing plays rate.  
def\_rushing\_plays\_ppa: **double**. Defense rushing plays predicted points added (PPA).  
def\_rushing\_plays\_total\_ppa: **double**. Defense rushing plays total predicted points added (PPA).  
def\_rushing\_plays\_success\_rate: **double**. Defense rushing plays success rate.

def\_rushing\_plays\_explosiveness: **double**. Defense rushing plays explosiveness rate.  
 def\_passing\_plays\_rate: **double**. Defense passing plays rate.  
 def\_passing\_plays\_ppa: **double**. Defense passing plays predicted points added (PPA).  
 def\_passing\_plays\_total\_ppa: **double**. Defense passing plays total predicted points added (PPA).  
 def\_passing\_plays\_success\_rate: **double**. Defense passing plays success rate.  
 def\_passing\_plays\_explosiveness: **double**. Defense passing plays explosiveness rate.

## Examples

```
try(cfbd_stats_season_advanced(2019, team = "LSU"))
```

---

cfbd\_stats\_season\_player

### Get season statistics by player

---

## Description

### Get season statistics by player

## Usage

```
cfbd_stats_season_player(
 year,
 season_type = "regular",
 team = NULL,
 conference = NULL,
 start_week = NULL,
 end_week = NULL,
 category = NULL
)
```

## Arguments

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
season_type	( <i>String</i> default: regular): Select Season Type - regular, postseason, or both
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
start_week	( <i>Integer</i> optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	( <i>Integer</i> optional): Ending Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier

category (String optional): Category filter (e.g defensive) Offense: passing, receiving, rushing Defense: defensive, fumbles, interceptions Special Teams: punting, puntReturns, kicking, kickReturns

### Value

`cfbd_stats_season_player()` - A data frame with 59 variables:

**team: character.** Team name.  
**conference: character.** Conference of the team.  
**athlete\_id: character.** Athlete referencing id.  
**player: character.** Player name.  
**category: character.** Statistic category.  
**passing\_completions: double.** Passing completions.  
**passing\_att: double.** Passing attempts.  
**passing\_pct: double.** Passing completion percentage.  
**passing\_yds: double.** Passing yardage.  
**passing\_td: double.** Passing touchdowns.  
**passing\_int: double.** Passing interceptions.  
**passing\_ypa: double.** Passing yards per attempt.  
**rushing\_car: double.** Rushing yards per carry.  
**rushing\_yds: double.** Rushing yards total.  
**rushing\_td: double.** Rushing touchdowns.  
**rushing\_ypc: double.** Rushing yards per carry.  
**rushing\_long: double.** Rushing longest yardage attempt.  
**receiving\_rec: double.** Receiving - pass receptions.  
**receiving\_yds: double.** Receiving - pass reception yards.  
**receiving\_td: double.** Receiving - passing reception touchdowns.  
**receiving\_ypr: double.** Receiving - passing yards per reception.  
**receiving\_long: double.** Receiving - longest pass reception yardage.  
**fumbles\_fum: double.** Fumbles.  
**fumbles\_rec: double.** Fumbles recovered.  
**fumbles\_lost: double.** Fumbles lost.  
**defensive\_solo: double.** Defensive solo tackles.  
**defensive\_tot: double.** Defensive total tackles.  
**defensive\_tfl: double.** Defensive tackles for loss.  
**defensive\_sacks: double.** Defensive sacks.  
**defensive\_qb\_hur: double.** Defensive quarterback hurries.  
**interceptions\_int: double.** Interceptions total.

interceptions\_yds: **double**. Interception return yards.  
 interceptions\_avg: **double**. Interception return yards average.  
 interceptions\_td: **double**. Interception return touchdowns.  
 defensive\_pd: **double**. Defense - passes defensed.  
 defensive\_td: **double**. Defense - defensive touchdowns.  
 kicking\_fgm: **double**. Kicking - field goals made.  
 kicking\_fga: **double**. Kicking - field goals attempted.  
 kicking\_pct: **double**. Kicking - field goal percentage.  
 kicking\_xpa: **double**. Kicking - extra points attempted.  
 kicking\_xpm: **double**. Kicking - extra points made.  
 kicking\_pts: **double**. Kicking - total points.  
 kicking\_long: **double**. Kicking - longest successful field goal attempt.  
 kick\_returns\_no: **double**. Kick Returns - number of kick returns.  
 kick\_returns\_yds: **double**. Kick Returns - kick return yards.  
 kick\_returns\_avg: **double**. Kick Returns - kick return average yards per return.  
 kick\_returns\_td: **double**. Kick Returns - kick return touchdowns.  
 kick\_returns\_long: **double**. Kick Returns - longest kick return yardage.  
 punting\_no: **double**. Punting - number of punts.  
 punting\_yds: **double**. Punting - punting yardage.  
 punting\_ypp: **double**. Punting - yards per punt.  
 punting\_long: **double**. Punting - longest punt yardage.  
 punting\_in\_20: **double**. Punting - punt downed inside the 20 yard line.  
 punting\_tb: **double**. Punting - punt caused a touchback.  
 punt\_returns\_no: **double**. Punt Returns - number of punt returns.  
 punt\_returns\_yds: **double**. Punt Returns - punt return yardage total.  
 punt\_returns\_avg: **double**. Punt Returns - punt return average yards per return.  
 punt\_returns\_td: **double**. Punt Returns - punt return touchdowns.  
 punt\_returns\_long: **double**. Punt Returns - longest punt return yardage.

### Examples

```

try(cfbd_stats_season_player(year = 2018, conference = "B12", start_week = 1, end_week = 7))

try(cfbd_stats_season_player(2019, team = "LSU", category = "passing"))

try(cfbd_stats_season_player(2013, team = "Florida State", category = "passing"))

```



---

 cfbd\_stats\_season\_team

### Get season statistics by team

---

#### Description

##### Get season statistics by team

#### Usage

```
cfbd_stats_season_team(
 year,
 season_type = "regular",
 team = NULL,
 conference = NULL,
 start_week = NULL,
 end_week = NULL
)
```

#### Arguments

year	( <i>Integer</i> required): Year, 4 digit format (YYYY)
season_type	( <i>String</i> default: regular): Select Season Type - regular, postseason, or both
team	( <i>String</i> optional): D-I Team
conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
start_week	( <i>Integer</i> optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	( <i>Integer</i> optional): Ending Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier

#### Value

`cfbd_stats_season_team()` - A data frame with 32 variables:

season: **integer** Season for stats.

team: **character**. Team name.

conference: **character**. Conference of team.

games: **integer**. Number of games.

time\_of\_poss\_total: **integer**. Time of possession total.

time\_of\_poss\_pg: **double**. Time of possession per game.

pass\_comps: **integer**. Total number of pass completions.

pass\_atts: **integer**. Total number of pass attempts.

completion\_pct: **double**. Passing completion percentage.  
net\_pass\_yds: **integer**. Net passing yards.  
pass\_ypa: **double**. Passing yards per attempt.  
pass\_ypr: **double**. Passing yards per reception.  
pass\_TDs: **integer**. Passing touchdowns.  
interceptions: **integer**. Passing interceptions.  
int\_pct: **double**. Interception percentage (of attempts).  
rush\_atts: **integer**. Rushing attempts.  
rush\_yds: **integer**. Rushing yards.  
rush\_TDs: **integer**. Rushing touchdowns.  
rush\_ypc: **double**. Rushing yards per carry.  
total\_yds: **integer**. Rushing total yards.  
fumbles\_lost: **integer**. Fumbles lost.  
turnovers: **integer**. Turnovers total.  
turnovers\_pg: **double**. Turnovers per game.  
first\_downs: **integer**. Number of first downs.  
third\_downs: **integer**. Number of third downs.  
third\_down\_convs: **integer**. Number of third down conversions.  
third\_conv\_rate: **double**. Third down conversion rate.  
fourth\_down\_convs: **integer**. Fourth down conversions.  
fourth\_downs: **integer**. Fourth downs.  
fourth\_conv\_rate: **double**. Fourth down conversion rate.  
penalties: **integer**. Total number of penalties.  
penalty\_yds: **integer**. Penalty yards total.  
penalties\_pg: **double**. Penalties per game.  
penalty\_yds\_pg: **double**. Penalty yardage per game.  
yards\_per\_penalty: **double**. Average yards per penalty.  
kick\_returns: **integer**. Number of kick returns.  
kick\_return\_yds: **integer**. Total kick return yards.  
kick\_return\_TDs: **integer**. Total kick return touchdowns.  
kick\_return\_avg: **double**. Kick return yards average.  
punt\_returns: **integer**. Number of punt returns.  
punt\_return\_yds: **integer**. Punt return total yards.  
punt\_return\_TDs: **integer**. Punt return total touchdowns.  
punt\_return\_avg: **double**. Punt return yards average.  
passes\_intercepted: **integer**. Passes intercepted.  
passes\_intercepted\_yds: **integer**. Pass interception return yards.  
passes\_intercepted\_TDs: **integer**. Pass interception return touchdowns.

**Examples**

```
try(cfbd_stats_season_team(year = 2018, conference = "B12", start_week = 1, end_week = 8))

try(cfbd_stats_season_team(2019, team = "LSU"))

try(cfbd_stats_season_team(2013, team = "Florida State"))
```

cfbd\_teams

**CFBD Teams Endpoint Overview****Description**

cfbd\_team\_info(): Team Info Lookup.

cfbd\_team\_roster(): Get a team's full roster by year.

cfbd\_team\_talent(): Get composite team talent rankings for all teams in a given year.

cfbd\_team\_matchup\_records(): Get matchup history records between two teams.

cfbd\_team\_matchup(): Get matchup history between two teams.

**Team info lookup:**

Lists all teams in conference or all D-I teams if conference is left NULL. Currently, support is only provided for D-I

```
cfbd_team_info(conference = "SEC")
```

```
cfbd_team_info(conference = "Ind")
```

```
cfbd_team_info(year = 2019)
```

**Get team rosters:****It is now possible to access yearly rosters:**

```
cfbd_team_roster(year = 2020)
```

*Get a teams full roster by year. If team is not selected, API returns rosters for every team from the selected year.:*

```
cfbd_team_roster(year = 2013, team = "Florida State")
```

*Get composite team talent rankings:*

Extracts team talent composite for all teams in a given year as sourced from 247 rankings

```
cfbd_team_talent()
```

```
cfbd_team_talent(year = 2018)
```

**Get matchup history between two teams.:**

```
cfbd_team_matchup("Texas A&M", "TCU")

cfbd_team_matchup("Texas A&M", "TCU", min_year = 1975)

cfbd_team_matchup("Florida State", "Florida", min_year = 1975)

Get matchup history records between two teams.:
cfbd_team_matchup_records("Texas", "Oklahoma")

cfbd_team_matchup_records("Texas A&M", "TCU", min_year = 1975)
```

---

cfbd\_team\_info

**Team info lookup**


---

**Description**
**Team info lookup**
**Usage**

```
cfbd_team_info(conference = NULL, only_fbs = TRUE, year = NULL)
```

**Arguments**

conference	( <i>String</i> optional): Conference abbreviation - Select a valid FBS conference Conference abbreviations P5: ACC, B12, B1G, SEC, PAC, Conference abbreviations G5 and FBS Independents: CUSA, MAC, MWC, Ind, SBC, AAC
only_fbs	( <i>Logical</i> default TRUE): Filter for only returning FBS teams for a given year. If year is left blank while only_fbs is TRUE, then will return values for most current year
year	( <i>Integer</i> optional): Year, 4 digit format (YYYY). Filter for getting a list of major division team for a given year

**Value**

`cfbd_team_info()` - A data frame with 12 variables:

**team\_id:** **integer.** Referencing team id.

**school:** **character.** Team name.

**mascot:** **character.** Team mascot.

**abbreviation:** **character.** Team abbreviations.

**alt\_name1:** **character.** Team alternate name 1 (as it appears in play\_text).

**alt\_name2:** **character.** Team alternate name 2 (as it appears in play\_text).

**alt\_name3:** **character.** Team alternate name 3 (as it appears in play\_text).

**conference:** **character.** Conference of team.

**division: character.** Division of team within the conference.  
**color: character.** Team color (primary).  
**alt\_color: character.** Team color (alternate).  
**logos: character.** Team logos.  
**venue\_id: character.** Referencing venue id.  
**venue\_name: character.** Stadium name.  
**city: character.** Team/venue city.  
**state: character.** Team/venue state.  
**zip: character.** Team/venue zip code (someone double check Miami (FL) on if they're in the same zip code).  
**country\_code: character.** Team/venue country code.  
**timezone: character.** Team/venue timezone.  
**latitude: character.** Venue latitude.  
**longitude: character.** Venue longitude.  
**elevation: character.** Venue elevation.  
**capacity: character.** Venue capacity.  
**year\_constructed: character.** Year the venue was constructed.  
**grass: character.** TRUE/FALSE response on whether the field is grass or not (oh, and there are so many others).  
**dome: character.** TRUE/FALSE flag for if the venue is a domed stadium.

### Examples

```

try(cfbd_team_info(conference = "SEC"))

try(cfbd_team_info(conference = "Ind"))

try(cfbd_team_info(year = 2019))

```

---

cfbd_team_matchup	<b>Get matchup history between two teams.</b>
-------------------	-----------------------------------------------

---

### Description

**Get matchup history between two teams.**

### Usage

```
cfbd_team_matchup(team1, team2, min_year = NULL, max_year = NULL)
```

**Arguments**

team1	( <i>String</i> required): D-I Team 1
team2	( <i>String</i> required): D-I Team 2
min_year	( <i>Integer</i> optional): Minimum of year range, 4 digit format (YYYY)
max_year	( <i>Integer</i> optional): Maximum of year range, 4 digit format (YYYY)

**Value**

`cfbd_team_matchup` - A data frame with 11 variables:

season: **integer**. Season the game took place.  
 week: **integer**. Game week of the season.  
 season\_type: **character**. Season type of the game.  
 date: **character**. Game date.  
 neutral\_site: **logical**. TRUE/FALSE flag for if the game took place at a neutral site.  
 venue: **character**. Stadium name.  
 home\_team: **character**. Home team of the game.  
 home\_score: **integer**. Home score in the game.  
 away\_team: **character**. Away team of the game.  
 away\_score: **integer**. Away score in the game.  
 winner: **character**. Winner of the matchup.

**Examples**

```
try(cfbd_team_matchup("Texas", "Oklahoma"))
try(cfbd_team_matchup("Texas A&M", "TCU"))
try(cfbd_team_matchup("Texas A&M", "TCU", min_year = 1975))
try(cfbd_team_matchup("Florida State", "Florida", min_year = 1975))
```

---

cfbd\_team\_matchup\_records

**Get matchup history records between two teams.**

---

**Description**

**Get matchup history records between two teams.**

**Usage**

```
cfbd_team_matchup_records(team1, team2, min_year = NULL, max_year = NULL)
```

**Arguments**

team1 (String required): D-I Team 1  
 team2 (String required): D-I Team 2  
 min\_year (Integer optional): Minimum of year range, 4 digit format (YYYY)  
 max\_year (Integer optional): Maximum of year range, 4 digit format (YYYY)

**Value**

`cfbd_team_matchup_records()` - A data frame with 7 variables:

start\_year: **character**. Span starting year.

end\_year: **character**. Span ending year.

team1: **character**. First team selected in query.

team1\_wins: **character**. First team wins in series against team2.

team2: **character**. Second team selected in query.

team2\_wins: **character**. Second team wins in series against team1.

ties: **character**. Number of ties in the series.

**Examples**

```
try(cfbd_team_matchup_records("Texas", "Oklahoma"))
```

```
try(cfbd_team_matchup_records("Texas A&M", "TCU", min_year = 1975))
```

---

 cfbd\_team\_roster

**Get team rosters**


---

**Description**

Get a teams full roster by year. If team is not selected, API returns rosters for every team from the selected year.

**Usage**

```
cfbd_team_roster(year, team = NULL)
```

**Arguments**

year                    (*Integer* required): Year, 4 digit format (YYYY)  
 team                    (*String* optional): Team, select a valid team in D-I football

**Value**

`cfbd_team_roster()` - A data frame with 12 variables:

athlete\_id: **character**. Referencing athlete id.

first\_name: **character**. Athlete first name.

last\_name: **character**. Athlete last name.

team: **character**. Team name.

weight: **integer**. Athlete weight.

height: **integer**. Athlete height.

jersey: **integer**. Athlete jersey number.

year: **integer**. Athlete year.

position: **character**. Athlete position.

home\_city: **character**. Hometown of the athlete.

home\_state: **character**. Hometown state of the athlete.

home\_country: **character**. Hometown country of the athlete.

home\_latitude: **numeric**. Hometown latitude.

home\_longitude: **number**. Hometown longitude.

home\_county\_fips: **integer**. Hometown FIPS code.

headshot\_url: **character** Player ESPN headshot url.

**Examples**

```
try(cfbd_team_roster(year = 2013, team = "Florida State"))
```

---

cfbd\_team\_talent

**Get composite team talent rankings for all teams in a given year**

---

**Description**

Extracts team talent composite as sourced from 247 rankings

**Usage**

```
cfbd_team_talent(year = NULL)
```



**Arguments**

year *(Integer optional):* Year 4 digit format (YYYY)

**Value**

`cfbd_team_talent()` - A data frame with 3 variables:

year: **integer.** Season for the talent rating.

school: **character.** Team name.

talent: **double.** Overall roster talent points (as determined by 247Sports).

**Examples**

```
try(cfbd_team_talent())
```

```
try(cfbd_team_talent(year = 2018))
```

---

cfbd\_venues

**CFBD Venues Endpoint Overview**

---

**Description**

Pulls all college football venues and data on capacity, grass, city/state, location, elevation, dome, timezone and construction year.

**Usage**

```
cfbd_venues()
```

**Details**

CFB Venue Information

```
cfbd_venues()
```

**Value**

A data frame with 337 rows and 13 variables:

venue\_id:**integer.** Referencing venue ID.

name:**character.** Venue name.

capacity:**integer.** Stadium capacity.

grass:**logical.** TRUE/FALSE response on whether the field is grass or not (oh, and there are so many others).

**city:character.** Venue city.  
**state:character.** Venue state.  
**zip:character.** Venue zip.  
**country\_code:character.** Venue country code.  
**location:list.** Venue location.  
**elevation:character.** Venue elevation.  
**year\_constructed:integer.** Year in which the venue was constructed.  
**dome:logical.** TRUE/FALSE response to whether the venue has a dome or not.  
**timezone:character.** Time zone in which the venue resides (i.e. Eastern Time -> "America/New York").

### Examples

```
try(cfb_venues())
```

---

csv_from_url	<b>Load .csv / .csv.gz file from a remote connection</b>
--------------	----------------------------------------------------------

---

### Description

This is a thin wrapper on `data.table::fread`

### Usage

```
csv_from_url(...)
```

### Arguments

... passed to `data.table::fread`

---

data	<b>Data in the package for reference</b>
------	------------------------------------------

---

### Description

**Data in the package for reference**  
**College Football Mapping for Play Types**  
**College Football Conferences**

**Usage**

cfbd\_play\_type\_df

cfbd\_conf\_types\_df

**Format**

A data frame with 45 rows and 3 variables:

**id** Referencing play id

**text** play type description

**abbreviation** play type abbreviation used for function call

A data frame with 11 rows and 4 variables:

**id** Referencing conference id

**name** Conference name

**short\_name** Short name for Conference

**abbreviation** Conference abbreviation

---

espn_cfb_calendar	<i>ESPN Calendar</i>
-------------------	----------------------

---

**Description**

look up the men's college football calendar for a given season

**Usage**

espn\_cfb\_calendar(year = NULL, groups = NULL)

**Arguments**

year (int): Used to define different seasons. 2002 is the earliest available season.

groups (string): Used to define different divisions. FBS or FCS.

**Value**

`espn_cfb_calendar()` - A data frame with 8 variables:

season: **character.** .

season\_type: **character.** .

label: **character.** .

alternate\_label: **character.** .

detail: **character.** .

week: **character.** .

start\_date: **character.** .

end\_date: **character.** .

**Examples**

```
try(espn_cfb_calendar(2021))
```

---

espn_cfb_pbp	<i>Get ESPN college football PBP data</i>
--------------	-------------------------------------------

---

**Description**

Get ESPN college football PBP data

**Usage**

```
espn_cfb_pbp(game_id, epa_wpa = FALSE)
```

**Arguments**

game_id	Game ID
epa_wpa	Logical parameter (TRUE/FALSE) to return the Expected Points Added/Win Probability Added variables

**Author(s)**

Saiem Gilani

**Examples**

```
try(espn_cfb_pbp(game_id = 401282614))
```

---

espn_cfb_scoreboard	<b>ESPN Scoreboard</b>
---------------------	------------------------

---

**Description****ESPN Scoreboard**

Get live scoreboard data from ESPN or look up the college football schedule for a given season  
ESPN Schedule

**Usage**

```

espn_cfb_scoreboard(date = NULL)

espn_cfb_schedule(
 year = NULL,
 week = NULL,
 season_type = NULL,
 groups = NULL,
 limit = 500
)

```

**Arguments**

date	( <i>Integer</i> required - YYYYMMDD): Date to pull
year	(int): Used to define different seasons. 2002 is the earliest available season.
week	(int): Week of the schedule.
season_type	(string): "regular", "postseason", "off-season", or "both".
groups	(string): Used to define different divisions. FBS or FCS.
limit	(int): number of records to return, default: 500.

**Value**

`espn_cfb_scoreboard()` & `espn_cfb_schedule()` - A data frame with 33 or 54 variables depending on if there are completed games: shared variables

**matchup: character.** Long matchup description with full team names (Utah Utes at UCLA Bruins).

**matchup\_short: character.** Short matchup description with team abbreviations (UTAH @ UCLA).

**season: integer.** Season of the game.

**type: character.** Season type of the game in CFBD format.

**slug: character.** Season type of the game in ESPN format.

**game\_id: character.** Referencing game ID.

**game\_uid: character.**

**game\_date: character.** Game date.

**attendance: integer.** Reported attendance at the game.

**home\_team\_name: character.** Home team mascot name (Sun Devils).

**home\_team\_logo: character.** Home team logo url.

**home\_team\_abb: character.** Home team abbreviation (ASU).

**home\_team\_id: character.** Home team ID.

**home\_team\_location: character.** Home team name (Arizona State).

**home\_team\_full: character.** Home team full name (Arizona State Sun Devils).

**home\_team\_color: character.** Home team color.

**home\_score: integer.** Home team points.

home\_win: **integer.** 1 if home team won, 0 if home team lost, NA if game is unfinished

home\_record: **character** Home team record.

away\_team\_name: **character.** Away team mascot name (Sun Devils).

away\_team\_logo: **character.** Away team logo url.

away\_team\_abb: **character.** Away team abbreviation (ASU).

away\_team\_id: **character.** Away team ID.

away\_team\_location: **character.** Away team name (Arizona State).

away\_team\_full: **character.** Away team full name (Arizona State Sun Devils).

away\_team\_color: **character.** Away team color.

away\_score: **integer.** Away team points.

away\_win: **integer.** 1 if away team won, 0 if home team lost, NA if game is unfinished

away\_record: **character** Away team record.

status\_name: **character.** Status of the game

start\_date: **character.** Game date.

Unique variables when there are completed games

broadcast\_market: **character.** Broadcast market (typically "national" or NA)

broadcast\_name: **character.** Broadcast channel i.e. ESPN, ABC, FOX

passing\_leader\_yards: **numeric.** Passing yards of game's passing leader

passing\_leader\_stat: **character.** Stat line of game's passing leader

passing\_leader\_name: **character.** Name of game's passing leader

passing\_leader\_shortcode: **character.** First initial and last name of game's passing leader

passing\_leader\_headshot: **character.** Headshot url of game's passing leader

passing\_leader\_team\_id: **character.** Team ID of game's passing leader

passing\_leader\_pos: **character.** Position of game's passing leader

rushing\_leader\_yards: **numeric.** Passing yards of game's rushing leader

rushing\_leader\_stat: **character.** Stat line of game's rushing leader

rushing\_leader\_name: **character.** Name of game's rushing leader

rushing\_leader\_shortcode: **character.** First initial and last name of game's rushing leader

rushing\_leader\_headshot: **character.** Headshot url of game's rushing leader

rushing\_leader\_team\_id: **character.** Team ID of game's rushing leader

rushing\_leader\_pos: **character.** Position of game's rushing leader

receiving\_leader\_yards: **numeric.** Passing yards of game's receiving leader

receiving\_leader\_stat: **character.** Stat line of game's receiving leader

receiving\_leader\_name: **character.** Name of game's receiving leader

receiving\_leader\_shortcode: **character.** First initial and last name of game's receiving leader

receiving\_leader\_headshot: **character.** Headshot url of game's receiving leader

receiving\_leader\_team\_id: **character.** Team ID of game's receiving leader

receiving\_leader\_pos: **character.** Position of game's receiving leader

**Examples**

```
try(espn_cfb_scoreboard())
```

```
try(espn_cfb_schedule(2021, week = 8))
```

---

espn\_cfb\_team\_stats      **Get ESPN college football team stats data**

---

**Description**

**Get ESPN college football team stats data**

**Usage**

```
espn_cfb_team_stats(team_id, year, season_type = "regular", total = FALSE)
```

**Arguments**

team_id	Team ID
year	Year
season_type	(character, default: regular): Season type - regular or postseason
total	(boolean, default: FALSE): Totals

**Value**

Returns a tibble with the following columns:

col_name	types
general_fumbles	numeric
general_fumbles_lost	numeric
general_fumbles_forced	numeric
general_fumbles_recovered	numeric
general_fumbles_touchdowns	numeric
general_games_played	numeric
general_offensive_two_pt_returns	numeric
general_offensive_fumbles_touchdowns	numeric
general_defensive_fumbles_touchdowns	numeric
passing_avg_gain	numeric
passing_completion_pct	numeric
passing_completions	numeric
passing_espnqb_rating	numeric
passing_interception_pct	numeric
passing_interceptions	numeric

passing_long_passing	numeric
passing_misc_yards	numeric
passing_net_passing_yards	numeric
passing_net_passing_yards_per_game	numeric
passing_net_total_yards	numeric
passing_net_yards_per_game	numeric
passing_passing_attempts	numeric
passing_passing_big_plays	numeric
passing_passing_first_downs	numeric
passing_passing_fumbles	numeric
passing_passing_fumbles_lost	numeric
passing_passing_touchdown_pct	numeric
passing_passing_touchdowns	numeric
passing_passing_yards	numeric
passing_passing_yards_after_catch	numeric
passing_passing_yards_at_catch	numeric
passing_passing_yards_per_game	numeric
passing_qb_rating	numeric
passing_sacks	numeric
passing_sack_yards_lost	numeric
passing_team_games_played	numeric
passing_total_offensive_plays	numeric
passing_total_points	numeric
passing_total_points_per_game	numeric
passing_total_touchdowns	numeric
passing_total_yards	numeric
passing_total_yards_from_scrimmage	numeric
passing_two_point_pass_convs	numeric
passing_two_pt_pass	numeric
passing_two_pt_pass_attempts	numeric
passing_yards_from_scrimmage_per_game	numeric
passing_yards_per_completion	numeric
passing_yards_per_game	numeric
passing_yards_per_pass_attempt	numeric
passing_net_yards_per_pass_attempt	numeric
passing_quarterback_rating	numeric
rushing_avg_gain	numeric
rushing_espnrb_rating	numeric
rushing_long_rushing	numeric
rushing_misc_yards	numeric
rushing_net_total_yards	numeric
rushing_net_yards_per_game	numeric
rushing_rushing_attempts	numeric
rushing_rushing_big_plays	numeric
rushing_rushing_first_downs	numeric
rushing_rushing_fumbles	numeric
rushing_rushing_fumbles_lost	numeric
rushing_rushing_touchdowns	numeric



rushing_rushing_yards	numeric
rushing_rushing_yards_per_game	numeric
rushing_stuffs	numeric
rushing_stuff_yards_lost	numeric
rushing_team_games_played	numeric
rushing_total_offensive_plays	numeric
rushing_total_points	numeric
rushing_total_points_per_game	numeric
rushing_total_touchdowns	numeric
rushing_total_yards	numeric
rushing_total_yards_from_scrimmage	numeric
rushing_two_point_rush_convs	numeric
rushing_two_pt_rush	numeric
rushing_two_pt_rush_attempts	numeric
rushing_yards_from_scrimmage_per_game	numeric
rushing_yards_per_game	numeric
rushing_yards_per_rush_attempt	numeric
receiving_avg_gain	numeric
receiving_espnwr_rating	numeric
receiving_long_reception	numeric
receiving_misc_yards	numeric
receiving_net_total_yards	numeric
receiving_net_yards_per_game	numeric
receiving_receiving_big_plays	numeric
receiving_receiving_first_downs	numeric
receiving_receiving_fumbles	numeric
receiving_receiving_fumbles_lost	numeric
receiving_receiving_targets	numeric
receiving_receiving_touchdowns	numeric
receiving_receiving_yards	numeric
receiving_receiving_yards_after_catch	numeric
receiving_receiving_yards_at_catch	numeric
receiving_receiving_yards_per_game	numeric
receiving_receptions	numeric
receiving_team_games_played	numeric
receiving_total_offensive_plays	numeric
receiving_total_points	numeric
receiving_total_points_per_game	numeric
receiving_total_touchdowns	numeric
receiving_total_yards	numeric
receiving_total_yards_from_scrimmage	numeric
receiving_two_point_rec_convs	numeric
receiving_two_pt_reception	numeric
receiving_two_pt_reception_attempts	numeric
receiving_yards_from_scrimmage_per_game	numeric
receiving_yards_per_game	numeric
receiving_yards_per_reception	numeric
defensive_assist_tackles	numeric

defensive_avg_interception_yards	numeric
defensive_avg_sack_yards	numeric
defensive_avg_stuff_yards	numeric
defensive_blocked_field_goal_touchdowns	numeric
defensive_blocked_punt_touchdowns	numeric
defensive_defensive_touchdowns	numeric
defensive_hurries	numeric
defensive_kicks_blocked	numeric
defensive_long_interception	numeric
defensive_misc_touchdowns	numeric
defensive_passes_batted_down	numeric
defensive_passes_defended	numeric
defensive_two_pt_returns	numeric
defensive_sacks	numeric
defensive_sack_yards	numeric
defensive_safeties	numeric
defensive_solo_tackles	numeric
defensive_stuffs	numeric
defensive_stuff_yards	numeric
defensive_tackles_for_loss	numeric
defensive_team_games_played	numeric
defensive_total_tackles	numeric
defensive_yards_allowed	numeric
defensive_points_allowed	numeric
defensive_one_pt_safeties_made	numeric
defensive_interceptions_interceptions	numeric
defensive_interceptions_interception_touchdowns	numeric
defensive_interceptions_interception_yards	numeric
kicking_avg_kickoff_return_yards	numeric
kicking_avg_kickoff_yards	numeric
kicking_extra_point_attempts	numeric
kicking_extra_point_pct	numeric
kicking_extra_points_blocked	numeric
kicking_extra_points_blocked_pct	numeric
kicking_extra_points_made	numeric
kicking_fair_catches	numeric
kicking_fair_catch_pct	numeric
kicking_field_goal_attempts	numeric
kicking_field_goal_attempts1_19	numeric
kicking_field_goal_attempts20_29	numeric
kicking_field_goal_attempts30_39	numeric
kicking_field_goal_attempts40_49	numeric
kicking_field_goal_attempts50_59	numeric
kicking_field_goal_attempts60_99	numeric
kicking_field_goal_attempts50	numeric
kicking_field_goal_attempt_yards	numeric
kicking_field_goal_pct	numeric
kicking_field_goals_blocked	numeric

kicking_field_goals_blocked_pct	numeric
kicking_field_goals_made	numeric
kicking_field_goals_made1_19	numeric
kicking_field_goals_made20_29	numeric
kicking_field_goals_made30_39	numeric
kicking_field_goals_made40_49	numeric
kicking_field_goals_made50_59	numeric
kicking_field_goals_made60_99	numeric
kicking_field_goals_made50	numeric
kicking_field_goals_made_yards	numeric
kicking_field_goals_missed_yards	numeric
kicking_kickoff_returns	numeric
kicking_kickoff_return_touchdowns	numeric
kicking_kickoff_return_yards	numeric
kicking_kickoffs	numeric
kicking_kickoff_yards	numeric
kicking_long_field_goal_attempt	numeric
kicking_long_field_goal_made	numeric
kicking_long_kickoff	numeric
kicking_team_games_played	numeric
kicking_total_kicking_points	numeric
kicking_touchback_pct	numeric
kicking_touchbacks	numeric
returning_def_fumble_returns	numeric
returning_def_fumble_return_yards	numeric
returning_fumble_recoveries	numeric
returning_fumble_recovery_yards	numeric
returning_kick_return_fair_catches	numeric
returning_kick_return_fair_catch_pct	numeric
returning_kick_return_fumbles	numeric
returning_kick_return_fumbles_lost	numeric
returning_kick_returns	numeric
returning_kick_return_touchdowns	numeric
returning_kick_return_yards	numeric
returning_long_kick_return	numeric
returning_long_punt_return	numeric
returning_misc_fumble_returns	numeric
returning_misc_fumble_return_yards	numeric
returning_opp_fumble_recoveries	numeric
returning_opp_fumble_recovery_yards	numeric
returning_opp_special_team_fumble_returns	numeric
returning_opp_special_team_fumble_return_yards	numeric
returning_punt_return_fair_catches	numeric
returning_punt_return_fair_catch_pct	numeric
returning_punt_return_fumbles	numeric
returning_punt_return_fumbles_lost	numeric
returning_punt_returns	numeric
returning_punt_returns_started_inside_the10	numeric

returning_punt_returns_started_inside_the20	numeric
returning_punt_return_touchdowns	numeric
returning_punt_return_yards	numeric
returning_special_team_fumble_returns	numeric
returning_special_team_fumble_return_yards	numeric
returning_team_games_played	numeric
returning_yards_per_kick_return	numeric
returning_yards_per_punt_return	numeric
returning_yards_per_return	numeric
punting_avg_punt_return_yards	numeric
punting_fair_catches	numeric
punting_gross_avg_punt_yards	numeric
punting_long_punt	numeric
punting_net_avg_punt_yards	numeric
punting_punt_returns	numeric
punting_punt_return_yards	numeric
punting_punts	numeric
punting_punts_blocked	numeric
punting_punts_blocked_pct	numeric
punting_punts_inside10	numeric
punting_punts_inside10pct	numeric
punting_punts_inside20	numeric
punting_punts_inside20pct	numeric
punting_punt_yards	numeric
punting_team_games_played	numeric
punting_touchback_pct	numeric
punting_touchbacks	numeric
scoring_defensive_points	numeric
scoring_field_goals	numeric
scoring_kick_extra_points	numeric
scoring_misc_points	numeric
scoring_passing_touchdowns	numeric
scoring_receiving_touchdowns	numeric
scoring_return_touchdowns	numeric
scoring_rushing_touchdowns	numeric
scoring_total_points	numeric
scoring_total_points_per_game	numeric
scoring_total_touchdowns	numeric
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miscellaneous_first_downs_passing	numeric
miscellaneous_first_downs_penalty	numeric
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miscellaneous_first_downs_rushing	numeric

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miscellaneous_total_penalties	numeric
miscellaneous_total_penalty_yards	numeric
miscellaneous_total_takeaways	numeric
miscellaneous_total_drives	numeric
miscellaneous_turn_over_differential	numeric

**Author(s)**

Saiem Gilani

**Examples**

```
try(espn_cfb_team_stats(team_id = 52, year = 2020))
```

---

 espn\_metrics

**ESPN Metrics**


---

**Description****ESPN Metrics**

Get win probability chart data from ESPN Graciously contributed by MrCaseB:

**Usage**

```
espn_metrics_wp(game_id)
```

**Arguments**

game\_id *(Integer required)*: Game ID filter for querying a single game Can be found using the [cfbd\\_game\\_info\(\)](#) function

**Value**

`espn_metrics_wp()` - A data frame with 5 variables:

`game_id`: **character**. Referencing game ID (should be same as `game_id` from other functions).

`play_id`: **character**. Referencing play ID.

`seconds_left`: **integer**. Seconds left in the game.

`home_win_percentage`: **double**. The probability of the home team winning the game.

`away_win_percentage`: **double**. The probability of the away team winning the game (calculated as  $1 - \text{home\_win\_percentage} - \text{tie\_percentage}$ ).

`tie_percentage`: **double**. The probability of the game ending the final period in a tie.

**Examples**

```
try(espn_metrics_wp(game_id = 401114164))
```

---

espn\_ratings\_fpi

**ESPN FPI Ratings**

---

**Description**

Get FPI historical rating data (most recent of each year)

**Usage**

```
espn_ratings_fpi(year = 2019)
```

**Arguments**

`year`                      Year

**Details**

Adapted from sabinanalytic's fork of the cfbfastR repo

**Value**

A data frame with 20 variables:

`year`: **double**. Season of the Football Power Index (FPI) Rating.

`team_id`: **character**. Unique ESPN team ID - `team_id`.

`name`: **character**. Team Name.

`abbr`: **character**. Team abbreviation.

`fpi`: **character**. Football Power Index (FPI) Rating.

**fpi\_rk: character.** Football Power Index (FPI) Rank.  
**trend: character.** Football Power Index (FPI) ranking trend.  
**proj\_w: character.** Projected Win total for the season.  
**proj\_l: character.** Projected Loss total for the season.  
**win\_out: double.** Probability the team wins out.  
**win\_6: double.** Probability the team wins at least six games.  
**win\_div: double.** Probability the team wins at their division.  
**playoff: double.** Probability the team reaches the playoff.  
**nc\_game: double.** Probability the team reaches the national championship game.  
**nc\_win: double.** Probability the team wins the national championship game.  
**win\_conf: double.** Probability the team wins their conference game.  
**w: character.** Wins on the season.  
**l: character.** Losses on the season.  
**t: character.** Ties on the season.

### Examples

```
try(espn_ratings_fpi(year=2019))
```

---

load\_cfb\_pbp

**Load cleaned play-by-play from the data repo**

---

### Description

helper that loads multiple seasons from the data repo either into memory or writes it into a db using some forwarded arguments in the dots

### Usage

```
load_cfb_pbp(
 seasons = most_recent_cfb_season(),
 ...,
 dbConnection = NULL,
 tablename = NULL
)
```

### Arguments

seasons	A vector of 4-digit years associated with given College Football seasons.
...	Additional arguments passed to an underlying function that writes the season data into a database (used by <code>update_cfb_db()</code> )
dbConnection	A DBIConnection object, as returned by <code>DBI::dbConnect()</code>
tablename	The name of the play by play data table within the database

---

load\_cfb\_rosters      *Load College Football Rosters*

---

**Description**

Load College Football Rosters

**Usage**

```
load_cfb_rosters(seasons = most_recent_cfb_season())
```

**Arguments**

seasons      a numeric vector of seasons to return, defaults to returning this year's data if it is September or later. If set to TRUE, will return all available data.

**Value**

A tibble of season-level roster data.

**See Also**

[cfbd\\_team\\_roster\(\)](#)

Issues with this data should be filed here: <https://github.com/sportsdataverse/cfbfastR-data>

**Examples**

```
try(load_cfb_rosters(2020))
```

---

load\_cfb\_schedules      *Load CFB Game/Schedule Data from data repo*

---

**Description**

This returns game/schedule information

**Usage**

```
load_cfb_schedules(seasons = most_recent_cfb_season())
```

**Arguments**

seasons      a numeric vector of seasons to return, default TRUE returns all available data.



**Value**

A tibble of game information for past and/or future games.

**See Also**

[cfbd\\_game\\_info\(\)](#)

Issues with this data should be filed here: <https://github.com/sportsdataverse/cfbfastR-data>

**Examples**

```
try(load_cfb_schedules(2020))
```

---

load_cfb_teams	<i>Load CFB team info from the data repo</i>
----------------	----------------------------------------------

---

**Description**

Loads team information including colors and logos - useful for plots!

**Usage**

```
load_cfb_teams(fbs_only = TRUE)
```

**Arguments**

fbs\_only            if TRUE, returns only FBS teams, otherwise returns all teams in the dataset

**Value**

A tibble of team-level image URLs and hex color codes.

**See Also**

[cfbd\\_team\\_info\(\)](#)

Issues with this data should be filed here: <https://github.com/sportsdataverse/cfbfastR-data>

**Examples**

```
try(load_cfb_teams())
```

---

**rds\_from\_url**                      **Load .rds file from a remote connection**

---

**Description**

**Load .rds file from a remote connection**

**Usage**

```
rds_from_url(url)
```

**Arguments**

url                      a character url

**Value**

a dataframe as created by [readRDS\(\)](#)

---

**register\_cfb**                      **CFBD API Key Registration**

---

**Description**

Save your API Key as a system environment variable CFBD\_API\_KEY

**Usage**

```
cfbd_key()
```

```
has_cfb_key()
```

**Details**

To get access to an API key, follow the instructions at <https://collegefootballdata.com/key>

**Using the key:** You can save the key for consistent usage by adding CFBD\_API\_KEY=XXXX-YOUR-API-KEY-HERE-XXXXX to your .Renviron file (easily accessed via `usethis::edit_r_environ()`). Run `usethis::edit_r_environ()`, a new script will pop open named .Renviron, **THEN** paste the following in the new script that pops up (without quotations)

```
CFBD_API_KEY = XXXX-YOUR-API-KEY-HERE-XXXXX
```

Save the script and restart your RStudio session, by clicking Session (in between Plots and Build) and click Restart R (there also exists the shortcut Ctrl + Shift + F10 to restart your session).

If set correctly, from then on you should be able to use any of the cfbd\_ functions without any other changes.

**For less consistent usage:** At the beginning of every session or within an R environment, save your API key as the environment variable CFBD\_API\_KEY (**with** quotations) using a command like the following.

```
Sys.setenv(CFBD_API_KEY = "XXXX-YOUR-API-KEY-HERE-XXXXX")
```

---

 update\_cfb\_db

 Update or create a cfbfastR play-by-play database
 

---

### Description

update\_cfb\_db() updates or creates a database with cfbfastR play by play data of all completed games since 2014.

### Usage

```
update_cfb_db(
 dbdir = getOption("cfbfastR.dbdirectory", default = "."),
 dbname = "cfb_pbp_db",
 tblname = "cfbfastR_pbp",
 force_rebuild = FALSE,
 db_connection = NULL
)
```

### Arguments

dbdir	Directory in which the database is or shall be located. Can also be set globally with options(cfbfastR.dbdirectory).
dbname	File name of an existing or desired SQLite database within dbdir
tblname	The name of the play by play data table within the database
force_rebuild	Hybrid parameter (logical or numeric) to rebuild parts of or the complete play by play data table within the database (please see details for further information)
db_connection	A DBIConnection object, as returned by <a href="#">DBI::dbConnect()</a> (please see details for further information)

**Details**

This function creates and updates a data table with the name `tblname` within a SQLite database (other drivers via `db_connection`) located in `dbdir` and named `dbname`. The data table combines all play by play data for every available game back to the 2014 season and adds the most recent completed games as soon as they are available for `cfbfastR`.

The argument `force_rebuild` is of hybrid type. It can rebuild the play by play data table either for the whole `cfbfastR` era (with `force_rebuild = TRUE`) or just for specified seasons (e.g. `force_rebuild = c(2019, 2020)`). Please note the following behavior:

- `force_rebuild = TRUE`: The data table with the name `tblname` will be removed completely and rebuilt from scratch. This is helpful when new columns are added during the Off-Season.
- `force_rebuild = c(2019, 2020)`: The data table with the name `tblname` will be preserved and only rows from the 2019 and 2020 seasons will be deleted and re-added. This is intended to be used for ongoing seasons because ESPN's data provider can make changes to the underlying data during the week.

The parameter `db_connection` is intended for advanced users who want to use other DBI drivers, such as MariaDB, Postgres or `odbc`. Please note that the arguments `dbdir` and `dbname` are dropped in case a `db_connection` is provided but the argument `tblname` will still be used to write the data table into the database.

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