Package 'cfbfastR'

September 9, 2025

Title Access College Football Play by Play Data

Version 2.0.0

Description A utility to quickly obtain clean and tidy college football
data. Serves as a wrapper around the
<https://collegefootballdata.com/> API and provides functions to
access live play by play and box score data from ESPN
<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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(>= 1.4.0), httr, janitor, jsonlite, lubridate, magrittr, mgcv
(>= 1.8-33), nnet, progressr (>= 0.6.0), purrr (>= 0.3.0), Rcpp
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(>= 1.4.0), tibble (>= 3.0), tidyr (>= 1.2.0)

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1

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Contents

Index **136**

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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	(*Integer* optional): Game ID filter for querying a single game. Required if year not provided Can be found using the [cfbd_game_info()](#) function
year	(*Integer* optional): Year, 4 digit format(*YYYY*). Required if game_id not provided
week	(*Integer* optional): Week - values from 1-15, 1-14 for seasons pre-playoff (i.e. 2013 or earlier)
season_type	(*String* default regular): Select Season Type: regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
home_team	(*String* optional): Home D-I Team
away_team	(*String* optional): Away D-I Team

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

line_provider   (*String* 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_classification:character. Home Conference classification (fbs,fcs,ii,iii)

home_score:integer. Home Score.

away_team:character. Away D-I Team.

away_conference:character. Away D-I Conference.

away_classification:character. Away Conference classification (fbs,fcs,ii,iii)

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.

See Also

Other CFBD Games: [cfbd_game_box_advanced](#)(), [cfbd_game_info](#)(), [cfbd_game_media](#)(),
[cfbd_game_player_stats](#)(), [cfbd_game_records](#)(), [cfbd_game_team_stats](#)(), [cfbd_game_weather](#)(),
[cfbd_live_scoreboard](#)()

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

first	(*String* optional): First name for the coach you are trying to look up
last	(*String* optional): Last name for the coach you are trying to look up
team	(*String* optional): Team - Select a valid team, D1 football
year	(*Integer* optional): Year, 4 digit format (*YYYY*).
min_year	(*Integer* optional): Minimum Year filter (inclusive), 4 digit format (*YYYY*).
max_year	(*Integer* 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 = "Cincinatti")
```

---

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	(*Integer* required): NFL draft class, 4 digit format (*YYYY*)
nfl_team	(*String*): NFL drafting team, see [cfbd_draft_teams()](#) for valid selections.
college	(*String*): NFL draftee college team, see [cfbd_team_info()](#) for valid selections.
conference	(*String*): NFL draftee college team conference, see [cfbd_conferences()](#) for valid selections.
position	(*String*): NFL position abbreviation, see [cfbd_draft_positions()](#) 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_id**: integer.** NFL team ID.

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.

See Also

Other CFBD Draft: [cfbd_draft_positions()](#), [cfbd_draft_teams](#)()

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.

See Also

Other CFBD Draft: [cfbd_draft_picks](#)(), [cfbd_draft_teams](#)()

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.

See Also

Other CFBD Draft: `cfbd_draft_picks()`, `cfbd_draft_positions()`

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,
  division = "fbs"
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
season_type	(*String* default regular): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
week	(*Integer* optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	(*String* optional): D-I Team
offense_team	(*String* optional): Offense D-I Team
defense_team	(*String* optional): Defense D-I Team
conference	(*String* 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

(*String* 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

(*String* 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

division   (*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii

Value

[cfbd_drives()](#) - A data frame with 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(year=2018, week = 1, team = "TCU"))

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

---

cfbd_games   **CFBD Games Endpoint Overview**

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_live_scoreboard()`: Get live scoreboard information.

`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.:

```
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   (*Integer* required): Game ID filter for querying a single game Can be found
               using the [cfbd_game_info()](#) function

long   (*Logical* 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) to-
     tal.

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) to-
     tal.

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.

See Also

Other CFBD Games: `cfbd_calendar()`, `cfbd_game_info()`, `cfbd_game_media()`, `cfbd_game_player_stats()`, `cfbd_game_records()`, `cfbd_game_team_stats()`, `cfbd_game_weather()`, `cfbd_live_scoreboard()`

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,
  division = "fbs",
  game_id = NULL,
  quarter_scores = FALSE
)
```

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): Select Season Type: regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
home_team	(*String* optional): Home D-I Team
away_team	(*String* optional): Away D-I Team
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

division	(*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii
game_id	(*Integer* optional): Game ID filter for querying a single game
quarter_scores	(*Logical* 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_division`: **character.** Home team division.

`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_division`: **character.** Away team division.

`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.

See Also

Other CFBD Games: `cfbd_calendar`(), `cfbd_game_box_advanced`(), `cfbd_game_media`(), `cfbd_game_player_stats`(`
`cfbd_game_records`(), `cfbd_game_team_stats`(), `cfbd_game_weather`(), `cfbd_live_scoreboard`()

Examples

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

---

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

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,
  division = "fbs"
)
```

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 both): Select Season Type, regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
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
media_type	(*String* optional): Media type filter: tv, radio, web, ppv, or mobile
division	(*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii

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.

See Also

Other CFBD Games: [cfbd_calendar()](#), [cfbd_game_box_advanced()](#), [cfbd_game_info()](#), [cfbd_game_player_stats()](#), [cfbd_game_records()](#), [cfbd_game_team_stats()](#), [cfbd_game_weather()](#), [cfbd_live_scoreboard()](#)

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	(*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): Select Season Type: regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
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
category	(*String* optional): Category filter (e.g defensive) Offense: passing, receiving, rushing Defense: defensive, fumbles, interceptions Special Teams: punting, puntReturns, kicking, kickReturns
game_id	(*Integer* optional): Game ID filter for querying a single game Can be found using the cfbd_game_info() function

Value

cfbd_game_player_stats() - A data frame with 32 variables:

col_name	types
game_id	integer
team	character
conference	character
home_away	character
team_points	integer
athlete_id	integer
athlete_name	character
defensive_td	numeric
defensive_qb_hur	numeric
defensive_pd	numeric
defensive_tfl	numeric
defensive_sacks	numeric
defensive_solo	numeric
defensive_tot	numeric
fumbles_rec	numeric
fumbles_lost	numeric
fumbles_fum	numeric
punting_long	numeric
punting_in_20	numeric
punting_tb	numeric
punting_avg	numeric
punting_yds	numeric
punting_no	numeric
kicking_pts	numeric
kicking_long	numeric

kicking_pct	numeric
punt_returns_td	numeric
punt_returns_long	numeric
punt_returns_avg	numeric
punt_returns_yds	numeric
punt_returns_no	numeric
kick_returns_td	numeric
kick_returns_long	numeric
kick_returns_avg	numeric
kick_returns_yds	numeric
kick_returns_no	numeric
interceptions_td	numeric
interceptions_yds	numeric
interceptions_int	numeric
receiving_long	numeric
receiving_td	numeric
receiving_avg	numeric
receiving_yds	numeric
receiving_rec	numeric
rushing_long	numeric
rushing_td	numeric
rushing_avg	numeric
rushing_yds	numeric
rushing_car	numeric
passing_int	numeric
passing_td	numeric
passing_avg	numeric
passing_yds	numeric
passing_completions	numeric
passing_attempts	numeric
passing_qbr	numeric
kicking_xpm	numeric
kicking_xpa	numeric
kicking_fgm	numeric
kicking_fga	numeric

See Also

Other CFBD Games: cfbd_calendar(), cfbd_game_box_advanced(), cfbd_game_info(), cfbd_game_media(), cfbd_game_records(), cfbd_game_team_stats(), cfbd_game_weather(), cfbd_live_scoreboard()

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	(*Integer* optional): Year, 4 digit format (*YYYY*)
team	(*String* optional): Team - Select a valid team, D1 football
conference	(*String* 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

Value

[cfbd_game_records()](#) - A data frame with 35 variables:

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

team_id: **integer.** Referencing team id.

team: **character.** Team name.

classification: **character** Conference classification (fbs,fcs,ii,iii)

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.

neutral_games: **integer.** Total neutral site games.

neutral_wins: **integer.** Total neutral site wins.

neutral_losses: **integer.** Total neutral site losses.

neutral_ties: **integer.** Total neutral site ties.

regular_season_games: **integer.** Total regular season games.

regular_season_wins: **integer.** Total regular season wins.

regular_season_losses: **integer.** Total regular season losses.

regular_season_ties: **integer.** Total regular season ties.

postseason_games: **integer.** Total postseason games.

postseason_wins: **integer.** Total postseason wins.

postseason_losses: **integer.** Total postseason losses.

postseason_ties: **integer.** Total postseason ties.

See Also

Other CFBD Games: cfbd_calendar(), cfbd_game_box_advanced(), cfbd_game_info(), cfbd_game_media(), cfbd_game_player_stats(), cfbd_game_team_stats(), cfbd_game_weather(), cfbd_live_scoreboard()

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,
  division = "fbs",
  rows_per_team = 1
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*). Required year filter (along with one of week, team, or conference), unless game_id is specified
week	(*Integer* optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier. Required if team and conference not specified.
season_type	(*String* default: regular): Select Season Type - regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team. Required if week and conference not specified.
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 Required if week and team not specified.
game_id	(*Integer* optional): Game ID filter for querying a single game Can be found using the [cfbd_game_info()](#) function
division	(*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii
rows_per_team	(*Integer* 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.

team**: 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.** Oppponent 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.

See Also

Other CFBD Games: [cfbd_calendar](), [cfbd_game_box_advanced](), [cfbd_game_info](), [cfbd_game_media](), [cfbd_game_player_stats](), [cfbd_game_records](), [cfbd_game_weather](), [cfbd_live_scoreboard]()

Examples

```
try(cfbd_game_team_stats(2022, 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	(*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): Select Season Type: regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
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_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.

See Also

Other CFBD Games: cfbd_calendar(), cfbd_game_box_advanced(), cfbd_game_info(), cfbd_game_media(),
cfbd_game_player_stats(), cfbd_game_records(), cfbd_game_team_stats(), cfbd_live_scoreboard()

---

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

Description

Get live college football play-by-play data.

Usage

```
cfbd_live_plays(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_live_plays() - A data frame with 94 columns:

col_name	types
game_id	integer
home_team_id	integer
home_team	character

away_team_id	integer
away_team	character
play_id	character
home_score	integer
away_score	integer
period	integer
clock	character
wall_clock	character
offense_team_id	integer
offense_team	character
down	integer
distance	integer
yards_to_goal	integer
yards_gained	integer
play_type_id	integer
play_type	character
ppa	numeric
garbage_time	logical
success	logical
rush_pass	character
down_type	character
play_text	character
drive_id	character
drive_offense_id	integer
drive_offense_team	character
drive_defense_id	integer
drive_defense_team	character
drive_play_count	integer
drive_yards_gained	integer
drive_start_period	integer
drive_start_clock	character
drive_start_yards_to_goal	integer
drive_end_period	integer
drive_end_clock	character
drive_end_yards_to_goal	integer
drive_duration	character
drive_scoring_opportunity	logical
drive_result	character
drive_points_gained	integer
current_clock	character
current_possession	character
home_line_scores_q1	integer
home_line_scores_q2	integer
home_line_scores_q3	integer
home_line_scores_q4	integer
home_points	integer
home_drives	integer
home_scoring_opportunities	integer

home_points_per_opportunity	numeric
home_average_start_yard_line	numeric
home_plays	integer
home_line_yards	numeric
home_line_yards_per_rush	numeric
home_second_level_yards	integer
home_second_level_yards_per_rush	numeric
home_open_field_yards	integer
home_open_field_yards_per_rush	numeric
home_ppa_per_play	numeric
home_total_ppa	numeric
home_passing_ppa	numeric
home_ppa_per_pass	numeric
home_rushing_ppa	numeric
home_ppa_per_rush	numeric
home_success_rate	numeric
home_standard_down_success_rate	numeric
home_passing_down_success_rate	numeric
home_explosiveness	numeric
home_deserve_to_win	numeric
away_line_scores_q1	integer
away_line_scores_q2	integer
away_line_scores_q3	integer
away_line_scores_q4	integer
away_points	integer
away_drives	integer
away_scoring_opportunities	integer
away_points_per_opportunity	numeric
away_average_start_yard_line	numeric
away_plays	integer
away_line_yards	numeric
away_line_yards_per_rush	numeric
away_second_level_yards	integer
away_second_level_yards_per_rush	numeric
away_open_field_yards	integer
away_open_field_yards_per_rush	numeric
away_ppa_per_play	numeric
away_total_ppa	numeric
away_passing_ppa	numeric
away_ppa_per_pass	numeric
away_rushing_ppa	numeric
away_ppa_per_rush	numeric
away_success_rate	numeric
away_standard_down_success_rate	numeric
away_passing_down_success_rate	numeric
away_explosiveness	numeric
away_deserve_to_win	numeric

See Also

Other CFBD PBP: cfbd_pbp_data(), cfbd_play_stats_player(), cfbd_play_stats_types(), cfbd_play_types(), cfbd_plays()

Examples

```
try(cfbd_live_plays(game_id=401520182))
```

---

cfbd_live_scoreboard **Get live game scoreboard information from games.**

Description

Get live game scoreboard information from games.

Usage

```
cfbd_live_scoreboard(division = "fbs", conference = NULL)
```

Arguments

division	(*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii
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_live_scoreboard() - A data frame with 41 variables:

col_name	types
game_id	integer
start_date	character
start_time_tbd	logical
tv	character
neutral_site	logical
conference_game	logical
status	character
period	integer
clock	character
situation	character
possession	character
last_play	character
venue_name	character
venue_city	character
venue_state	character

home_team_id	integer
home_team_name	character
home_team_conference	character
home_team_classification	character
home_team_points	integer
home_team_line_scores_Q1	integer
home_team_line_scores_Q2	integer
home_team_line_scores_Q3	integer
home_team_line_scores_Q4	integer
away_team_id	integer
away_team_name	character
away_team_conference	character
away_team_classification	character
away_team_points	integer
away_team_line_scores_Q1	integer
away_team_line_scores_Q2	integer
away_team_line_scores_Q3	integer
away_team_line_scores_Q4	integer
weather_temperature	numeric
weather_description	character
weather_wind_speed	numeric
weather_wind_direction	integer
betting_spread	numeric
betting_over_under	numeric
betting_home_moneyline	integer
betting_away_moneyline	integer

See Also

Other CFBD Games: `cfbd_calendar()`, `cfbd_game_box_advanced()`, `cfbd_game_info()`, `cfbd_game_media()`, `cfbd_game_player_stats()`, `cfbd_game_records()`, `cfbd_game_team_stats()`, `cfbd_game_weather()`

Examples

```
try(cfbd_live_scoreboard(division='fbs', conference = "B12"))
```

---

cfbd_metrics   **CFBD Metrics Endpoint Overview**

Description

cfbd_metrics_fg_ep(): Get field goal expected points values.

cfbd_metrics_wepa_team_season(): Get opponent-adjusted team season statistics for predicted points added (PPA).

cfbd_metrics_wepa_players_passing(): Get opponent-adjusted player passing statistics for predicted points added (PPA).

cfbd_metrics_wepa_players_rushing(): Get opponent-adjusted player rushing statistics for predicted points added (PPA).

cfbd_metrics_wepa_players_kicking(): Get Points Added Above Replacement (PAAR) ratings for kickers.

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 expected points for field goals by yards to goal and distance:

```
cfbd_metrics_fg_ep()
```

Get opponent-adjusted team season statistics for predicted points added (PPA):

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

Get opponent-adjusted player passing statistics for predicted points added (PPA):

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

Get opponent-adjusted player rushing statistics for predicted points added (PPA):

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

Get Points Added Above Replacement (PAAR) ratings for kickers:

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

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_fg_ep   **Get FG expected points from CFBD API**

Description

Get FG expected points from CFBD API

Usage

```
cfbd_metrics_fg_ep()
```

Value

[cfbd_metrics_fg_ep()](#) - A data frame with 3 variables:

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

distance: **integer.** Distance to goal posts from kicking location (17 yds further than yards to goal).

expected_points: **double.** Expected points given yards to goal / distance.

See Also

Other CFBD Metrics: [cfbd_metrics_ppa_games](#)(), [cfbd_metrics_ppa_players_games](#)(), [cfbd_metrics_ppa_players](#),
[cfbd_metrics_ppa_predicted](#)(), [cfbd_metrics_ppa_teams](#)(), [cfbd_metrics_wepa_players_kicking](#)(),
[cfbd_metrics_wepa_players_passing](#)(), [cfbd_metrics_wepa_players_rushing](#)(), [cfbd_metrics_wepa_team_seas](#)
[cfbd_metrics_wp](#)(), [cfbd_metrics_wp_pregame](#)()

Examples

```
try(cfbd_metrics_fg_ep())
```

---

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,
  season_type = "both",
  team = NULL,
  conference = NULL,
  excl_garbage_time = FALSE
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
week	(*Integer* optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
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
excl_garbage_time	
	(*Logical* 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.

season_type: **character.** Season Type (regular, postseason, etc.

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).

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep`(), `cfbd_metrics_ppa_players_games`(), `cfbd_metrics_ppa_players_sea`
`cfbd_metrics_ppa_predicted`(), `cfbd_metrics_ppa_teams`(), `cfbd_metrics_wepa_players_kicking`(),
`cfbd_metrics_wepa_players_passing`(), `cfbd_metrics_wepa_players_rushing`(), `cfbd_metrics_wepa_team_seas`
`cfbd_metrics_wp`(), `cfbd_metrics_wp_pregame`()

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,
  season_type = "both",
  team = NULL,
  position = NULL,
  athlete_id = NULL,
  threshold = NULL,
  excl_garbage_time = FALSE
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*).
week	(*Integer* optional): Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier. Required if team not provided.
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team. Required if week not provided.
position	(*string* optional): Position abbreviation of the player you are searching for. Position Group - options include:

> • Offense: QB, RB, FB, TE, OL, G, OT, C, WR
> • 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_games()` - A data frame with 9 variables:

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

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

athlete_id: **character.** Athlete referencing id.

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).

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep()`, `cfbd_metrics_ppa_games()`, `cfbd_metrics_ppa_players_season()`, `cfbd_metrics_ppa_predicted()`, `cfbd_metrics_ppa_teams()`, `cfbd_metrics_wepa_players_kicking()`, `cfbd_metrics_wepa_players_passing()`, `cfbd_metrics_wepa_players_rushing()`, `cfbd_metrics_wepa_team_seaso`, `cfbd_metrics_wp()`, `cfbd_metrics_wp_pregame()`

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	(*Integer* optional): Year, 4 digit format (*YYYY*). Required if athlete_id not provided
team	(*String* optional): D-I Team.
conference	(*String* 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	(*string* optional): Position abbreviation of the player you are searching for. Position Group - options include:

- Offense: QB, RB, FB, TE, OL, G, OT, C, WR
- 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. Required if year not provided 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.** DEPRECATED 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).

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep()`, `cfbd_metrics_ppa_games()`, `cfbd_metrics_ppa_players_games()`, `cfbd_metrics_ppa_predicted()`, `cfbd_metrics_ppa_teams()`, `cfbd_metrics_wepa_players_kicking()`, `cfbd_metrics_wepa_players_passing()`, `cfbd_metrics_wepa_players_rushing()`, `cfbd_metrics_wepa_team_season`, `cfbd_metrics_wp()`, `cfbd_metrics_wp_pregame()`

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

See Also

Other CFBD Metrics: [cfbd_metrics_fg_ep()](#), [cfbd_metrics_ppa_games()](#), [cfbd_metrics_ppa_players_games()](#),
[cfbd_metrics_ppa_players_season()](#), [cfbd_metrics_ppa_teams()](#), [cfbd_metrics_wepa_players_kicking()](#),
[cfbd_metrics_wepa_players_passing()](#), [cfbd_metrics_wepa_players_rushing()](#), [cfbd_metrics_wepa_team_seas](#)
[cfbd_metrics_wp()](#), [cfbd_metrics_wp_pregame()](#)

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	(*Integer* optional): Year, 4 digit format (*YYYY*). Required if team not provided
team	(*String* optional): D-I Team. Required if year not provided
conference	(*String* 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	(*Logical* 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).

See Also

Other CFBD Metrics: cfbd_metrics_fg_ep(), cfbd_metrics_ppa_games(), cfbd_metrics_ppa_players_games(), cfbd_metrics_ppa_players_season(), cfbd_metrics_ppa_predicted(), cfbd_metrics_wepa_players_kicking(), cfbd_metrics_wepa_players_passing(), cfbd_metrics_wepa_players_rushing(), cfbd_metrics_wepa_team_seas cfbd_metrics_wp(), cfbd_metrics_wp_pregame()

Examples

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

---

cfbd_metrics_wepa_players_kicking

Get Points Added Above Replacement (PAAR) ratings for kickers

---

Description

Get Points Added Above Replacement (PAAR) ratings for kickers

Usage

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

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
team	(*String* optional): D-I Team
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_metrics_wepa_players_kicking()](#) - A data frame with 7 variables:

col_name	types
year	integer
athlete_id	character
athlete_name	character
team	character
conference	character
paar	numeric
attempts	integer

See Also

Other CFBD Metrics: [cfbd_metrics_fg_ep()](#), [cfbd_metrics_ppa_games()](#), [cfbd_metrics_ppa_players_games()](#), [cfbd_metrics_ppa_players_season()](#), [cfbd_metrics_ppa_predicted()](#), [cfbd_metrics_ppa_teams()](#), [cfbd_metrics_wepa_players_passing()](#), [cfbd_metrics_wepa_players_rushing()](#), [cfbd_metrics_wepa_team_seas](#), [cfbd_metrics_wp()](#), [cfbd_metrics_wp_pregame()](#)

Examples

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

---

cfbd_metrics_wepa_players_passing

Get opponent-adjusted player passing statistics for predicted points added (PPA)

Description

Get opponent-adjusted player passing statistics for predicted points added (PPA)

Usage

```
cfbd_metrics_wepa_players_passing(
  year = NULL,
  team = NULL,
  conference = NULL,
  position = NULL
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
team	(*String* optional): D-I Team
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
position	(*string* optional): Position abbreviation of the player you are searching for. Position Group - options include:

- Offense: QB, RB, FB, TE, OL, G, OT, C, WR
- Defense: DB, CB, S, LB, DE, DT, NT, DL
- Special Teams: K, P, LS, PK

Value

[cfbd_metrics_wepa_players_passing()](#) - A data frame with 8 variables:

col_name	types
year	integer
athlete_id	character
athlete_name	character
position	character
team	character
conference	character
wepa	numeric
plays	integer

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep()`, `cfbd_metrics_ppa_games()`, `cfbd_metrics_ppa_players_games()`, `cfbd_metrics_ppa_players_season()`, `cfbd_metrics_ppa_predicted()`, `cfbd_metrics_ppa_teams()`, `cfbd_metrics_wepa_players_kicking()`, `cfbd_metrics_wepa_players_rushing()`, `cfbd_metrics_wepa_team_seas` `cfbd_metrics_wp()`, `cfbd_metrics_wp_pregame()`

Examples

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

cfbd_metrics_wepa_players_rushing

Get opponent-adjusted player rushing statistics for predicted points added (PPA)

Description

Get opponent-adjusted player rushing statistics for predicted points added (PPA)

Usage

```
cfbd_metrics_wepa_players_rushing(
  year = NULL,
  team = NULL,
  conference = NULL,
  position = NULL
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
team	(*String* optional): D-I Team
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
position	(*string* optional): Position abbreviation of the player you are searching for. Position Group - options include:

- Offense: QB, RB, FB, TE, OL, G, OT, C, WR
- Defense: DB, CB, S, LB, DE, DT, NT, DL
- Special Teams: K, P, LS, PK

Value

[cfbd_metrics_wepa_players_rushing()](#) - A data frame with 8 variables:

col_name	types
year	integer
athlete_id	character
athlete_name	character
position	character
team	character
conference	character
wepa	numeric
plays	integer

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep()`, `cfbd_metrics_ppa_games()`, `cfbd_metrics_ppa_players_games()`, `cfbd_metrics_ppa_players_season()`, `cfbd_metrics_ppa_predicted()`, `cfbd_metrics_ppa_teams()`, `cfbd_metrics_wepa_players_kicking()`, `cfbd_metrics_wepa_players_passing()`, `cfbd_metrics_wepa_team_season`, `cfbd_metrics_wp()`, `cfbd_metrics_wp_pregame()`

Examples

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

---

cfbd_metrics_wepa_team_season

Get opponent-adjusted team season statistics for predicted points added (PPA)

Description

Get opponent-adjusted team season statistics for predicted points added (PPA)

Usage

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

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
team	(*String* optional): D-I Team
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_metrics_wepa_team_season()](#) - A data frame with 26 variables:

col_name	types
year	integer
team_id	integer
team	character
conference	character
explosiveness	numeric
explosiveness_allowed	numeric
epa_total	numeric
epa_passing	numeric
epa_rushing	numeric

epa_allowed_total	numeric
epa_allowed_passing	numeric
epa_allowed_rushing	numeric
success_rate_total	numeric
success_rate_standard_downs	numeric
success_rate_passing_downs	numeric
success_rate_allowed_total	numeric
success_rate_allowed_standard_downs	numeric
success_rate_allowed_passing_downs	numeric
rushing_line_yards	numeric
rushing_second_level_yards	numeric
rushing_open_field_yards	numeric
rushing_highlight_yards	numeric
rushing_allowed_line_yards	numeric
rushing_allowed_second_level_yards	numeric
rushing_allowed_open_field_yards	numeric
rushing_allowed_highlight_yards	numeric

See Also

Other CFBD Metrics: `cfbd_metrics_fg_ep()`, `cfbd_metrics_ppa_games()`, `cfbd_metrics_ppa_players_games()`,
`cfbd_metrics_ppa_players_season()`, `cfbd_metrics_ppa_predicted()`, `cfbd_metrics_ppa_teams()`,
`cfbd_metrics_wepa_players_kicking()`, `cfbd_metrics_wepa_players_passing()`, `cfbd_metrics_wepa_players_ru`
`cfbd_metrics_wp()`, `cfbd_metrics_wp_pregame()`

Examples

```
try(cfbd_metrics_wepa_team_season(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).

See Also

Other CFBD Metrics: [cfbd_metrics_fg_ep()](#), [cfbd_metrics_ppa_games()](#), [cfbd_metrics_ppa_players_games()](#),
[cfbd_metrics_ppa_players_season()](#), [cfbd_metrics_ppa_predicted()](#), [cfbd_metrics_ppa_teams()](#),
[cfbd_metrics_wepa_players_kicking()](#), [cfbd_metrics_wepa_players_passing()](#), [cfbd_metrics_wepa_players_r](#)
[cfbd_metrics_wepa_team_season()](#), [cfbd_metrics_wp_pregame()](#)

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 = "both"
)
```

Arguments

year	(*Integer* optional): Year, 4 digit format (*YYYY*)
week	(*Integer* optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	(*String* optional): D-I Team
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_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.

See Also

Other CFBD Metrics: [cfbd_metrics_fg_ep()](#), [cfbd_metrics_ppa_games()](#), [cfbd_metrics_ppa_players_games()](#), [cfbd_metrics_ppa_players_season()](#), [cfbd_metrics_ppa_predicted()](#), [cfbd_metrics_ppa_teams()](#), [cfbd_metrics_wepa_players_kicking()](#), [cfbd_metrics_wepa_players_passing()](#), [cfbd_metrics_wepa_players_ru](#), [cfbd_metrics_wepa_team_season()](#), [cfbd_metrics_wp()](#)

Examples

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

---

cfbd_pbp_data **Get college football play by play data with cfbfastR expected points/win probability added**

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	(*String* default regular): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
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 cfbd_play_type_df)
epa_wpa	Logical parameter (TRUE/FALSE) to return the Expected Points Added/Win Probability Added variables
...	Additional arguments passed to an underlying function.

Details

```
# Get play by play data for 2025 regular season week 1
cfbd_pbp_data(year = 2025, week = 1, season_type = 'regular', epa_wpa = TRUE)
```

Value

A data frame with 368 variables:

col_name	types
season	numeric
wk	numeric
id_play	character

game_id	integer
game_play_number	numeric
half_play_number	numeric
drive_play_number	numeric
pos_team	character
def_pos_team	character
pos_team_score	integer
def_pos_team_score	integer
half	factor
period	integer
clock_minutes	integer
clock_seconds	integer
play_type	character
play_text	character
down	numeric
distance	numeric
yards_to_goal	numeric
yards_gained	numeric
EPA	numeric
ep_before	numeric
ep_after	numeric
wpa	numeric
wp_before	numeric
wp_after	numeric
def_wp_before	numeric
def_wp_after	numeric
penalty_detail	character
yds_penalty	numeric
penalty_1st_conv	logical
new_series	numeric
firstD_by_kickoff	numeric
firstD_by_poss	numeric
firstD_by_penalty	numeric
firstD_by_yards	numeric
def_EPA	numeric
home_EPA	numeric
away_EPA	numeric
home_EPA_rush	numeric
away_EPA_rush	numeric
home_EPA_pass	numeric
away_EPA_pass	numeric
total_home_EPA	numeric
total_away_EPA	numeric
total_home_EPA_rush	numeric
total_away_EPA_rush	numeric
total_home_EPA_pass	numeric
total_away_EPA_pass	numeric
net_home_EPA	numeric

net_away_EPA	numeric
net_home_EPA_rush	numeric
net_away_EPA_rush	numeric
net_home_EPA_pass	numeric
net_away_EPA_pass	numeric
success	numeric
epa_success	numeric
rz_play	numeric
scoring_opp	numeric
middle_8	logical
stuffed_run	numeric
change_of_pos_team	numeric
downs_turnover	numeric
turnover	numeric
pos_score_diff_start	numeric
pos_score_pts	numeric
log_ydstogo	numeric
ExpScoreDiff	numeric
ExpScoreDiff_Time_Ratio	numeric
half_clock_minutes	numeric
TimeSecsRem	numeric
adj_TimeSecsRem	numeric
Goal_To_Go	logical
Under_two	logical
home	character
away	character
home_wp_before	numeric
away_wp_before	numeric
home_wp_after	numeric
away_wp_after	numeric
end_of_half	numeric
pos_team_receives_2H_kickoff	numeric
lead_pos_team	character
lead_play_type	character
lag_pos_team	character
lag_play_type	character
orig_play_type	character
Under_three	logical
down_end	factor
distance_end	numeric
log_ydstogo_end	numeric
yards_to_goal_end	numeric
TimeSecsRem_end	numeric
Goal_To_Go_end	logical
Under_two_end	logical
offense_score_play	numeric
defense_score_play	numeric
ppa	numeric

yard_line	integer
scoring	logical
pos_team_timeouts_rem_before	numeric
def_pos_team_timeouts_rem_before	numeric
pos_team_timeouts	integer
def_pos_team_timeouts	integer
pos_score_diff	integer
pos_score_diff_start_end	numeric
offense_play	character
defense_play	character
offense_receives_2H_kickoff	numeric
change_of_poss	numeric
score_pts	numeric
score_diff_start	numeric
score_diff	integer
offense_score	integer
defense_score	integer
offense_conference	character
defense_conference	character
off_timeout_called	numeric
def_timeout_called	numeric
offense_timeouts	integer
defense_timeouts	integer
off_timeouts_rem_before	numeric
def_timeouts_rem_before	numeric
rusher_player_name	character
yds_rushed	numeric
passer_player_name	character
receiver_player_name	character
yds_receiving	numeric
yds_sacked	numeric
sack_players	character
sack_player_name	character
sack_player_name2	character
pass_breakup_player_name	character
interception_player_name	character
yds_int_return	numeric
fumble_player_name	character
fumble_forced_player_name	character
fumble_recovered_player_name	character
yds_fumble_return	numeric
punter_player_name	character
yds_punted	numeric
punt_returner_player_name	character
yds_punt_return	numeric
yds_punt_gained	numeric
punt_block_player_name	character
punt_block_return_player_name	character

fg_kicker_player_name	character
yds_fg	numeric
fg_block_player_name	character
fg_return_player_name	character
kickoff_player_name	character
yds_kickoff	numeric
kickoff_returner_player_name	character
yds_kickoff_return	numeric
new_id	numeric
orig_drive_number	integer
drive_number	integer
drive_result_detailed	character
new_drive_pts	numeric
drive_id	numeric
drive_result	character
drive_start_yards_to_goal	numeric
drive_end_yards_to_goal	integer
drive_yards	integer
drive_scoring	numeric
drive_pts	numeric
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	logical
drive_time_seconds_elapsed	logical
drive_numbers	numeric
number_of_drives	numeric
pts_scored	numeric
drive_result_detailed_flag	character
drive_result2	character
drive_num	numeric
lag_drive_result_detailed	character
lead_drive_result_detailed	character
lag_new_drive_pts	numeric
id_drive	character
rush	numeric
rush_td	numeric
pass	numeric
pass_td	numeric
completion	numeric
pass_attempt	numeric
target	numeric
sack_vec	numeric
sack	numeric
int	numeric

int_td	numeric
turnover_vec	numeric
turnover_vec_lag	numeric
turnover_indicator	numeric
kickoff_play	numeric
receives_2H_kickoff	numeric
missing_yard_flag	logical
scoring_play	numeric
td_play	numeric
touchdown	numeric
safety	numeric
fumble_vec	numeric
kickoff_tb	numeric
kickoff_onside	numeric
kickoff_oob	numeric
kickoff_fair_catch	numeric
kickoff_downed	numeric
kickoff_safety	numeric
kick_play	numeric
punt	numeric
punt_play	numeric
punt_tb	numeric
punt_oob	numeric
punt_fair_catch	numeric
punt_downed	numeric
punt_safety	numeric
punt_blocked	numeric
penalty_safety	numeric
fg_inds	numeric
fg_made	logical
fg_make_prob	numeric
No_Score_before	numeric
FG_before	numeric
Opp_FG_before	numeric
Opp_Safety_before	numeric
Opp_TD_before	numeric
Safety_before	numeric
TD_before	numeric
No_Score_after	numeric
FG_after	numeric
Opp_FG_after	numeric
Opp_Safety_after	numeric
Opp_TD_after	numeric
Safety_after	numeric
TD_after	numeric
penalty_flag	logical
penalty_declined	logical
penalty_no_play	logical

penalty_offset	logical
penalty_text	logical
penalty_play_text	character
lead_wp_before2	numeric
wpa_half_end	numeric
wpa_base	numeric
wpa_base_nxt	numeric
wpa_change	numeric
wpa_change_nxt	numeric
wpa_base_ind	numeric
wpa_base_nxt_ind	numeric
wpa_change_ind	numeric
wpa_change_nxt_ind	numeric
lead_wp_before	numeric
lead_pos_team2	character
row	integer
drive_event_number	numeric
lag_play_type2	character
lag_play_type3	character
lag_play_text	character
lag_play_text2	character
lead_play_text	character
lag_first_by_penalty	numeric
lag_first_by_penalty2	numeric
lag_first_by_yards	numeric
lag_first_by_yards2	numeric
first_by_penalty	numeric
first_by_yards	numeric
play_after_turnover	numeric
lag_change_of_poss	numeric
lag_change_of_pos_team	numeric
lag_change_of_pos_team2	numeric
lag_kickoff_play	numeric
lag_punt	numeric
lag_punt2	numeric
lag_scoring_play	numeric
lag_turnover_vec	numeric
lag_downs_turnover	numeric
lag_defense_score_play	numeric
lag_score_diff	numeric
lag_offense_play	character
lead_offense_play	character
lead_offense_play2	character
lag_pos_score_diff	numeric
lag_off_timeouts	numeric
lag_def_timeouts	numeric
lag_TimeSecsRem2	numeric
lag_TimeSecsRem	numeric

lead_TimeSecsRem	numeric
lead_TimeSecsRem2	numeric
lag_yards_to_goal2	integer
lag_yards_to_goal	integer
lead_yards_to_goal	numeric
lead_yards_to_goal2	integer
lag_down2	integer
lag_down	integer
lead_down	numeric
lead_down2	numeric
lead_distance	numeric
lead_distance2	integer
lead_play_type2	character
lead_play_type3	character
lag_ep_before3	numeric
lag_ep_before2	numeric
lag_ep_before	numeric
lead_ep_before	numeric
lead_ep_before2	numeric
lag_ep_after	numeric
lag_ep_after2	numeric
lag_ep_after3	numeric
lead_ep_after	numeric
lead_ep_after2	numeric
play_number	integer
wallclock	character
provider	character
spread	numeric
formatted_spread	character
over_under	numeric
drive_is_home_offense	logical
drive_start_offense_score	integer
drive_start_defense_score	integer
drive_end_offense_score	integer
drive_end_defense_score	integer
play	numeric
event	numeric
game_event_number	numeric
game_row_number	integer
half_play	numeric
half_event	numeric
half_event_number	numeric
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
pos_unit	character
def_pos_unit	character
lag_change_of_poss2	numeric
lag_change_of_poss3	numeric
lag_change_of_pos_team3	numeric
lag_kickoff_play2	numeric
lag_kickoff_play3	numeric
lag_punt3	numeric
lag_scoring_play2	numeric
lag_scoring_play3	numeric
lag_turnover_vec2	numeric
lag_turnover_vec3	numeric
lag_downs_turnover2	numeric
lag_downs_turnover3	numeric
drive_play	numeric
drive_event	numeric
lag_first_by_penalty3	numeric
lag_first_by_yards3	numeric

See Also

Other CFBD PBP: `cfbd_live_plays()`, `cfbd_play_stats_player()`, `cfbd_play_stats_types()`, `cfbd_play_types()`, `cfbd_plays()`

---

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	(*String* required): Search term for the player you are trying to look up
position	(*string* optional): Position of the player you are searching for. Position Group - options include:
	• Offense: QB, RB, FB, TE, OL, G, OT, C, WR
	• Defense: DB, CB, S, LB, DE, DT, NT, DL
	• Special Teams: K, P, LS, PK
team	(*String* optional): Team - Select a valid team, D1 football
year	(*Integer* 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.

See Also

Other CFBD Players: [cfbd_player_returning()](#), [cfbd_player_usage()](#)

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 = most_recent_cfb_season(),
  team = NULL,
  conference = NULL
)
```

Arguments

year	(*Integer* required, default most recent season): Year, 4 digit format (*YYYY*).
team	(*String* optional): Team - Select a valid team, D1 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_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.** .

See Also

Other CFBD Players: [cfbd_player_info()](#), [cfbd_player_usage()](#)

Examples

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

cfbd_player_usage **Get player usage metrics**

Description

Get player usage metrics

Usage

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

Arguments

year	(*Integer* required, default most recent season): Year, 4 digit format (*YYYY*).
team	(*String* optional): Team - Select a valid team, D1 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
position	(*string* optional): Position of the player you are searching for. Position Group - options include:

- Offense: QB, RB, FB, TE, OL, G, OT, C, WR
- 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.
excl_garbage_time	(*Logical* 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.

See Also

Other CFBD Players: cfbd_player_info(), cfbd_player_returning()

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,
  division = "fbs"
)
```

Arguments

year	Select year, (example: 2018)
season_type	(*String* default regular): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
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 [cfbd_play_type_df](#))
division	(*String* optional): Division abbreviation - Select a valid division: fbs/fcs/ii/iii

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.

See Also

Other CFBD PBP: cfbd_live_plays(), cfbd_pbp_data(), cfbd_play_stats_player(), cfbd_play_stats_types(), cfbd_play_types()

Examples

```
try(cfbd_plays(year = 2021, week = 1))
```

---

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	(*Integer* optional): Year, 4 digit format (*YYYY*)
week	(*Integer* optional): Week - values from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
team	(*String* optional): D-I Team
game_id	(*Integer* optional): Game ID filter for querying a single game Can be found using the cfbd_game_info() function
athlete_id	(*Integer* optional): Athlete ID filter for querying a single athlete Can be found using the cfbd_player_info() function.
stat_type_id	(*Integer* optional): Stat Type ID filter for querying a single stat type Can be found using the cfbd_play_stats_types() function
season_type	(*String* default regular): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason

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.

field_goal_attempt_player_id: **character.** Field goal attempting player reference id.

field_goal_attempt_player: **character.** Field goal attempting player name.

field_goal_attempt_stat: **integer.** Field goal attempt stat.

field_goal_made_player_id: **character.** Field goal making player reference id.

field_goal_made_player: **character.** Field goal making player name.

`field_goal_made_stat`**: integer.** Field goal made stat.

`field_goal_missed_player_id`**: character.** Field goal missing player reference id.

`field_goal_missed_player`**: character.** Field goal missing player name.

`field_goal_missed_stat`**: integer.** Field goal missed stat.

`field_goal_blocked_player_id`**: character.** Field goal blocked player reference id.

`field_goal_blocked_player`**: character.** Field goal blocked player name.

`field_goal_blocked_stat`**: integer.** Field goal blocked stat.

See Also

Other CFBD PBP: `cfbd_live_plays()`, `cfbd_pbp_data()`, `cfbd_play_stats_types()`, `cfbd_play_types()`, `cfbd_plays()`

Examples

```
try(cfbd_play_stats_player(game_id = 401628414))
try(cfbd_play_stats_player(year = 2025, week = 1))
```

---

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 25 rows and 2 variables:

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

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

See Also

Other CFBD PBP: `cfbd_live_plays()`, `cfbd_pbp_data()`, `cfbd_play_stats_player()`, `cfbd_play_types()`, `cfbd_plays()`

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

See Also

Other CFBD PBP: [cfbd_live_plays](#)(), [cfbd_pbp_data](#)(), [cfbd_play_stats_player](#)(), [cfbd_play_stats_types](#)(),
[cfbd_plays](#)()

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 = "both")
```

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 both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason

Value

[cfbd_rankings()](#) - A data frame with 9 variables:

col_name	types
season	integer
season_type	character
week	integer
poll	character
rank	integer
school	character
conference	character
first_place_votes	integer
points	integer

See Also

Other CFBD Ratings and Rankings: [cfbd_ratings_elo()](#), [cfbd_ratings_fpi()](#), [cfbd_ratings_sp()](#), [cfbd_ratings_sp_conference()](#), [cfbd_ratings_srs()](#)

Examples

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

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

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

---

cfbd_ratings   **CFBD Ratings and Rankings Endpoints Overview**

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.

cfbd_ratings_elo(): Get Elo historical rating data.

cfbd_ratings_fpi(): Get FPI 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")
```

Get FPI historical rating data:

Acquire the ESPN FPI ratings data by **team**, **year**, and **conference**

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

cfbd_ratings_fpi(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,
  season_type = "both",
  team = NULL,
  conference = NULL
)
```

Arguments

year	(*Integer* optional): Year, 4 digit format (*YYYY*)
week	(*Integer* optional): Maximum Week of ratings.
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
conference	(*String* optional): Conference abbreviation - Elo 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_elo()](#) - A data frame with 4 variables:

col_name	types
year	integer
team	character
conference	character
elo	numeric

See Also

Other CFBD Ratings and Rankings: [cfbd_rankings()](#), [cfbd_ratings_fpi()](#), [cfbd_ratings_sp()](#), [cfbd_ratings_sp_conference()](#), [cfbd_ratings_srs()](#)

Examples

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

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

---

cfbd_ratings_fpi   **Get Football Power Index (FPI) historical rating data**

Description

Acquire the ESPN calculated FPI ratings data by team, year, and conference

Usage

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

Arguments

year   (*Integer* optional): Year, 4 digit format (*YYYY*). Required if team not provided

team   (*String* optional): D-I Team. Required if year not provided

conference   (*String* 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 Indepen-
                 dents, American Athletic

Value

[cfbd_ratings_fpi()](#) - A data frame with 14 variables:

col_name	types
year	integer
team	character
conference	character
fpi	numeric
resume_ranks_strength_of_record	integer
resume_ranks_fpi	integer
resume_ranks_average_win_probability	integer
resume_ranks_strength_of_schedule	integer
resume_ranks_remaining_strength_of_schedule	integer
resume_ranks_game_control	integer
efficiencies_overall	numeric
efficiencies_offense	numeric
efficiencies_defense	numeric
efficiencies_special_teams	numeric

See Also

Other CFBD Ratings and Rankings: cfbd_rankings(), cfbd_ratings_elo(), cfbd_ratings_sp(),
cfbd_ratings_sp_conference(), cfbd_ratings_srs()

Examples

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

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

---

cfbd_ratings_sp   **Get SP historical rating data**

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	(*Integer* optional): Year, 4 digit format (*YYYY*). Required if team not provided
team	(*String* optional): D-I Team. Required if year not provided

Value

cfbd_ratings_sp() - A data frame with 26 variables:

col_name	types
year	integer
team	character
conference	character
rating	numeric
ranking	integer
second_order_wins	numeric
sos	numeric
offense_ranking	integer
offense_rating	numeric
offense_success	numeric
offense_explosiveness	numeric

offense_rushing	numeric
offense_passing	numeric
offense_standard_downs	numeric
offense_passing_downs	numeric
offense_run_rate	numeric
offense_pace	numeric
defense_ranking	integer
defense_rating	numeric
defense_success	numeric
defense_explosiveness	numeric
defense_rushing	numeric
defense_passing	numeric
defense_standard_downs	numeric
defense_passing_downs	numeric
defense_havoc_total	numeric
defense_havoc_front_seven	numeric
defense_havoc_db	numeric
special_teams_rating	numeric

See Also

Other CFBD Ratings and Rankings: cfbd_rankings(), cfbd_ratings_elo(), cfbd_ratings_fpi(),
cfbd_ratings_sp_conference(), cfbd_ratings_srs()

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	(*Integer* optional): Year, 4 digit format (*YYYY*)
conference	(*String* 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.

See Also

Other CFBD Ratings and Rankings: cfbd_rankings(), cfbd_ratings_elo(), cfbd_ratings_fpi(), cfbd_ratings_sp(), cfbd_ratings_srs()

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	(*Integer* optional): Year, 4 digit format (*YYYY*). Required if team not provided
team	(*String* optional): D-I Team. Required if year not provided
conference	(*String* 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.

See Also

Other CFBD Ratings and Rankings: cfbd_rankings(), cfbd_ratings_elo(), cfbd_ratings_fpi(), cfbd_ratings_sp(), cfbd_ratings_sp_conference()

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	(*Integer* optional): Year, 4 digit format (*YYYY*) - Minimum: 2000. Required if team not provided
team	(*String* optional): D-I Team. Required if year not provided
recruit_type	(*String* optional): default API return is 'HighSchool', other options include 'JUCO' or 'PrepSchool' - For position group information
state	(*String* optional): Two letter State abbreviation
position	(*String* optional): Position Group - options include:

- Offense: 'PRO', 'DUAL', 'RB', 'FB', 'TE', 'OT', 'OG', 'OC', 'WR'
- Defense: 'CB', 'S', 'OLB', 'ILB', 'WDE', 'SDE', 'DT'
- Special Teams: 'K', 'P'

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.

See Also

Other CFBD Recruiting: [cfbd_recruiting_position](#)(), [cfbd_recruiting_team](#)(), [cfbd_recruiting_transfer_port](#)

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*). *Note: 2000 is the minimum value*
end_year	(*Integer* optional): End Year, 4 digit format (*YYYY*). *Note: 2020 is the maximum value currently*
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.

See Also

Other CFBD Recruiting: `cfbd_recruiting_player()`, `cfbd_recruiting_team()`, `cfbd_recruiting_transfer_portal`

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*) - Minimum: 2000. Required if team not provided.
team	(*String* optional): Team - Select a valid team, D1 football. Required if year not provided.

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.

See Also

Other CFBD Recruiting: `cfbd_recruiting_player()`, `cfbd_recruiting_position()`, `cfbd_recruiting_transfer_po`

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.

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

See Also

Other CFBD Recruiting: [cfbd_recruiting_player](#)(), [cfbd_recruiting_position](#)(), [cfbd_recruiting_team](#)()

Examples

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

---

cfbd_stats   **CFBD Stats Endpoint Overview**

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()`](cfbd_stats_categories()) A data frame with 38 values:

name Statistics Categories

See Also

Other CFBD Stats: [`cfbd_stats_game_advanced`](cfbd_stats_game_advanced)(), [`cfbd_stats_season_advanced`](cfbd_stats_season_advanced)(), [`cfbd_stats_season_player`](cfbd_stats_season_player)(),
[`cfbd_stats_season_team`](cfbd_stats_season_team)()

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	(*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)
team	(*String* optional): D-I Team
opponent	(*String* optional): Opponent D-I Team
excl_garbage_time	
	(*Logical* default FALSE): Select whether to exclude Garbage Time (TRUE/FALSE)
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason

Value

[cfbd_stats_game_advanced()](#) - A data frame with 60 variables:

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

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

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.

See Also

Other CFBD Stats: cfbd_stats_categories(), cfbd_stats_season_advanced(), cfbd_stats_season_player(), cfbd_stats_season_team()

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	(*Integer* required): Year, 4 digit format (*YYYY*)
team	(*String* optional): D-I Team
excl_garbage_time	
	(*Logical* default FALSE): Select whether to exclude Garbage Time (TRUE/FALSE)
start_week	(*Integer* optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	(*Integer* 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 82 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.

See Also

Other CFBD Stats: `cfbd_stats_categories`(), `cfbd_stats_game_advanced`(), `cfbd_stats_season_player`(), `cfbd_stats_season_team`()

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 = "both",
  team = NULL,
  conference = NULL,
  start_week = NULL,
  end_week = NULL,
  category = NULL
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
season_type	(*String* default both): Season type - regular, postseason, both, allstar, spring_regular, spring_postseason
team	(*String* optional): D-I Team
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
start_week	(*Integer* optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	(*Integer* 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:

year: **integer.** Season of the player stats.

team: **character.** Team name.

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

athlete_id: **character.** Athlete referencing id.

player: **character.** Player name.

position: **character.** Player position.

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.

See Also

Other CFBD Stats: `cfbd_stats_categories`(), `cfbd_stats_game_advanced`(), `cfbd_stats_season_advanced`(),
`cfbd_stats_season_team`()

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 = "both",
  team = NULL,
  conference = NULL,
  start_week = NULL,
  end_week = NULL
)
```

Arguments

year	(*Integer* required): Year, 4 digit format (*YYYY*)
season_type	(*String* default: both): Select Season Type - regular, postseason, or both
team	(*String* optional): D-I Team
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
start_week	(*Integer* optional): Starting Week - values range from 1-15, 1-14 for seasons pre-playoff, i.e. 2013 or earlier
end_week	(*Integer* 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.

See Also

Other CFBD Stats: `cfbd_stats_categories()`, `cfbd_stats_game_advanced()`, `cfbd_stats_season_advanced()`, `cfbd_stats_season_player()`

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 = most_recent_cfb_season()
)
```

Arguments

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 Required if year not provided
only_fbs	(*Logical* 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	(*Integer* optional): Year, 4 digit format (*YYYY*). Filter for getting a list of major division team for a given year. Required if conference not provided and the year parameter is only supported if only_fbs is TRUE.

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.

classification: **character.** Conference classification (fbs,fcs,ii,iii)

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.

See Also

Other CFBD Teams: cfbd_team_matchup(), cfbd_team_matchup_records(), cfbd_team_roster(),
cfbd_team_talent()

Examples

```
try(cfbd_team_info(conference = "SEC"))

try(cfbd_team_info(conference = "Ind"))

try(cfbd_team_info(year = 2019))
```

---

cfbd_team_matchup   **Get matchup history between two teams.**

Description

Get matchup history between two teams.

Usage

```
cfbd_team_matchup(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 - 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.

See Also

Other CFBD Teams: [cfbd_team_info](), [cfbd_team_matchup_records](), [cfbd_team_roster](),
[cfbd_team_talent]()

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.

See Also

Other CFBD Teams: [cfbd_team_info](#)(), [cfbd_team_matchup](#)(), [cfbd_team_roster](#)(), [cfbd_team_talent](#)()

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.

See Also

Other CFBD Teams: [cfbd_team_info](#)(), [cfbd_team_matchup](#)(), [cfbd_team_matchup_records](#)(), [cfbd_team_talent](#)()

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 = most_recent_cfb_season())
```

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).

See Also

Other CFBD Teams: [cfbd_team_info](#)(), [cfbd_team_matchup](#)(), [cfbd_team_matchup_records](#)(),
[cfbd_team_roster](#)()

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.

latitude**:double.** Venue latitude.

longitude**: double.** Venue longitude.

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(cfbd_venues())
```

---

csv_from_url	**Load .csv / .csv.gz file from a remote connection**

Description

This is a thin wrapper on data.table::fread

Usage

```
csv_from_url(...)
```

Arguments

...   passed to data.table::fread

---

data   **Data in the package for reference**

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   *ESPN Calendar*

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   *Get ESPN college football PBP data*

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

Value

A data frame with college football play-by-play data

Author(s)

Saiem Gilani

Examples

```
try(espn_cfb_pbp(game_id = 401282614, epa_wpa = TRUE))
```

espn_cfb_player_stats   **Get ESPN college football player stats data**

Description

Get ESPN college football player stats data

Usage

```
espn_cfb_player_stats(athlete_id, year, season_type = "regular", total = FALSE)
```

Arguments

athlete_id	Athlete 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
athlete_id	character
athlete_uid	character
athlete_guid	character
athlete_type	character
sdr	character
first_name	character
last_name	character
full_name	character
display_name	character
short_name	character
weight	numeric
display_weight	character
height	numeric
display_height	character
age	integer
date_of_birth	character
birth_place_city	character
birth_place_state	character
birth_place_country	character
birth_country_alternate_id	character
birth_country_abbreviation	character
slug	character
jersey	character

flag_href	character
flag_alt	character
flag_x_country_flag	character
position_id	character
position_name	character
position_display_name	character
position_abbreviation	character
position_leaf	logical
linked	logical
experience_years	integer
experience_display_value	character
experience_abbreviation	character
active	logical
status_id	character
status_name	character
status_type	character
status_abbreviation	character
headshot_href	character
headshot_alt	character
general_fumbles	numeric
general_fumbles_lost	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_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_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_qbr	numeric
passing_adj_qbr	numeric
passing_quarterback_rating	numeric
rushing_avg_gain	numeric
rushing_espnrb_rating	numeric
rushing_long_rushing	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_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_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_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
scoring_defensive_points	numeric
scoring_field_goals	numeric
scoring_kick_extra_points	numeric
scoring_kick_extra_points_made	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
scoring_total_two_point_convs	numeric
scoring_two_point_pass_convs	numeric
scoring_two_point_rec_convs	numeric
scoring_two_point_rush_convs	numeric
scoring_one_pt_safeties_made	numeric
general_fumbles_forced	logical
general_fumbles_recovered	logical
passing_misc_yards	logical
passing_total_points	logical

rushing_misc_yards	logical
rushing_total_points	logical
receiving_misc_yards	logical
receiving_total_points	logical
defensive_assist_tackles	logical
defensive_avg_interception_yards	logical
defensive_avg_sack_yards	logical
defensive_avg_stuff_yards	logical
defensive_blocked_field_goal_touchdowns	logical
defensive_blocked_punt_touchdowns	logical
defensive_defensive_touchdowns	logical
defensive_hurries	logical
defensive_kicks_blocked	logical
defensive_long_interception	logical
defensive_misc_touchdowns	logical
defensive_missed_field_goal_return_td	numeric
defensive_blocked_punt_ez_rec_td	numeric
defensive_passes_batted_down	logical
defensive_passes_defended	logical
defensive_two_pt_returns	logical
defensive_sacks	logical
defensive_sack_yards	logical
defensive_safeties	logical
defensive_solo_tackles	logical
defensive_stuffs	logical
defensive_stuff_yards	logical
defensive_tackles_for_loss	logical
defensive_team_games_played	logical
defensive_total_tackles	logical
defensive_yards_allowed	logical
defensive_points_allowed	logical
defensive_one_pt_safeties_made	logical
defensive_interceptions_interceptions	logical
defensive_interceptions_interception_touchdowns	logical
defensive_interceptions_interception_yards	logical
kicking_avg_kickoff_return_yards	logical
kicking_avg_kickoff_yards	logical
kicking_extra_point_attempts	logical
kicking_extra_point_pct	logical
kicking_extra_points_blocked	logical
kicking_extra_points_blocked_pct	logical
kicking_extra_points_made	logical
kicking_fair_catches	logical
kicking_fair_catch_pct	logical
kicking_field_goal_attempts	logical
kicking_field_goal_attempts1_19	logical
kicking_field_goal_attempts20_29	logical
kicking_field_goal_attempts30_39	logical

kicking_field_goal_attempts40_49	logical
kicking_field_goal_attempts50_59	logical
kicking_field_goal_attempts60_99	logical
kicking_field_goal_attempts50	logical
kicking_field_goal_attempt_yards	logical
kicking_field_goal_pct	logical
kicking_field_goals_blocked	logical
kicking_field_goals_blocked_pct	logical
kicking_field_goals_made	logical
kicking_field_goals_made1_19	logical
kicking_field_goals_made20_29	logical
kicking_field_goals_made30_39	logical
kicking_field_goals_made40_49	logical
kicking_field_goals_made50_59	logical
kicking_field_goals_made60_99	logical
kicking_field_goals_made50	logical
kicking_field_goals_made_yards	logical
kicking_field_goals_missed_yards	logical
kicking_kickoff_returns	logical
kicking_kickoff_return_touchdowns	logical
kicking_kickoff_return_yards	logical
kicking_kickoffs	logical
kicking_kickoff_yards	logical
kicking_long_field_goal_attempt	logical
kicking_long_field_goal_made	logical
kicking_long_kickoff	logical
kicking_team_games_played	logical
kicking_total_kicking_points	logical
kicking_touchback_pct	logical
kicking_touchbacks	logical
returning_def_fumble_returns	logical
returning_def_fumble_return_yards	logical
returning_fumble_recoveries	logical
returning_fumble_recovery_yards	logical
returning_kick_return_fair_catches	logical
returning_kick_return_fair_catch_pct	logical
returning_kick_return_fumbles	logical
returning_kick_return_fumbles_lost	logical
returning_kick_returns	logical
returning_kick_return_touchdowns	logical
returning_kick_return_yards	logical
returning_long_kick_return	logical
returning_long_punt_return	logical
returning_misc_fumble_returns	logical
returning_misc_fumble_return_yards	logical
returning_opp_fumble_recoveries	logical
returning_opp_fumble_recovery_yards	logical
returning_opp_special_team_fumble_returns	logical

returning_opp_special_team_fumble_return_yards	logical
returning_punt_return_fair_catches	logical
returning_punt_return_fair_catch_pct	logical
returning_punt_return_fumbles	logical
returning_punt_return_fumbles_lost	logical
returning_punt_returns	logical
returning_punt_returns_started_inside_the10	logical
returning_punt_returns_started_inside_the20	logical
returning_punt_return_touchdowns	logical
returning_punt_return_yards	logical
returning_special_team_fumble_returns	logical
returning_special_team_fumble_return_yards	logical
returning_team_games_played	logical
returning_yards_per_kick_return	logical
returning_yards_per_punt_return	logical
returning_yards_per_return	logical
punting_avg_punt_return_yards	logical
punting_fair_catches	logical
punting_gross_avg_punt_yards	logical
punting_long_punt	logical
punting_net_avg_punt_yards	logical
punting_punt_returns	logical
punting_punt_return_yards	logical
punting_punts	logical
punting_punts_blocked	logical
punting_punts_blocked_pct	logical
punting_punts_inside10	logical
punting_punts_inside10pct	logical
punting_punts_inside20	logical
punting_punts_inside20pct	logical
punting_punt_yards	logical
punting_team_games_played	logical
punting_touchback_pct	logical
punting_touchbacks	logical
miscellaneous_first_downs	logical
miscellaneous_first_downs_passing	logical
miscellaneous_first_downs_penalty	logical
miscellaneous_first_downs_per_game	logical
miscellaneous_first_downs_rushing	logical
miscellaneous_fourth_down_attempts	logical
miscellaneous_fourth_down_conv_pct	logical
miscellaneous_fourth_down_convs	logical
miscellaneous_fumbles_lost	logical
miscellaneous_possession_time_seconds	logical
miscellaneous_redzone_efficiency_pct	logical
miscellaneous_redzone_field_goal_pct	logical
miscellaneous_redzone_scoring_pct	logical
miscellaneous_redzone_touchdown_pct	logical

miscellaneous_third_down_attempts	logical
miscellaneous_third_down_conv_pct	logical
miscellaneous_third_down_convs	logical
miscellaneous_total_giveaways	logical
miscellaneous_total_penalties	logical
miscellaneous_total_penalty_yards	logical
miscellaneous_total_takeaways	logical
miscellaneous_total_drives	logical
miscellaneous_turn_over_differential	logical
team_id	character
team_guid	character
team_uid	character
team_sdr	character
team_slug	character
team_location	character
team_name	character
team_nickname	character
team_abbreviation	character
team_display_name	character
team_short_display_name	character
team_color	character
team_alternate_color	character
is_active	logical
is_all_star	logical
logo_href	character
logo_dark_href	character

Author(s)

Saiem Gilani

Examples

```
try(espn_cfb_player_stats(athlete_id = 530308, year = 2013))
try(espn_cfb_player_stats(athlete_id = 4360799, year = 2022))
```

espn_cfb_scoreboard   **ESPN Scoreboard**

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	(*Integer* 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.

play_by_play_available: **logical**

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_shortname**: 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_shortname**: 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_shortname**: 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

espn_cfb_schedule() - A data frame with 8 variables:

matchup: **character.** .

matchup_short: **character.** .

season: **integer.** .

type: **character.** .

slug: **character.** .

game_id: **character.** .

game_uid: **character.** .

game_date: **Date.** .

attendance: **integer.** .

date_valid: **logical.** .

play_by_play_available: **logical.** .

home_team_name: **character.** .

home_team_logo: **character.** .

home_team_abb: **character.** .

home_team_id: **character.** .

home_team_location: **character.** .

home_team_full: **character.** .

home_team_color: **character.** .

home_score: **integer.** .

home_win: **integer.** .

home_record: **character.** .

away_team_name: **character.** .

away_team_logo: **character.** .

away_team_abb: **character.** .

away_team_id: **character.** .

away_team_location: **character.** .

away_team_full: **character.** .

away_team_color: **character.** .

away_score: **integer.** .

away_win: **integer.** .

away_record: **character.** .

status_name: **character.** .

start_date: **character.** .

highlights: **logical.** .

game_date_time: **datetime.** .

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
team_id	character
team_guid	character
team_uid	character
team_sdr	character
team_slug	character
team_location	character
team_name	character
team_nickname	character
team_abbreviation	character
team_display_name	character
team_short_display_name	character
team_color	character
team_alternate_color	character
is_active	logical
is_all_star	logical

logo_href	character
logo_dark_href	character
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
scoring_total_two_point_convs	numeric
scoring_two_point_pass_convs	numeric
scoring_two_point_rec_convs	numeric
scoring_two_point_rush_convs	numeric
scoring_one_pt_safeties_made	numeric
miscellaneous_first_downs	numeric
miscellaneous_first_downs_passing	numeric
miscellaneous_first_downs_penalty	numeric
miscellaneous_first_downs_per_game	numeric
miscellaneous_first_downs_rushing	numeric
miscellaneous_fourth_down_attempts	numeric
miscellaneous_fourth_down_conv_pct	numeric
miscellaneous_fourth_down_convs	numeric
miscellaneous_fumbles_lost	numeric
miscellaneous_possession_time_seconds	numeric
miscellaneous_redzone_efficiency_pct	numeric
miscellaneous_redzone_field_goal_pct	numeric
miscellaneous_redzone_scoring_pct	numeric
miscellaneous_redzone_touchdown_pct	numeric
miscellaneous_third_down_attempts	numeric
miscellaneous_third_down_conv_pct	numeric
miscellaneous_third_down_convs	numeric
miscellaneous_total_giveaways	numeric
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.** DEPRECATED. 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 - home_win_percentage - tie_percentage).

tie_percentage: **double.** The probability of the game ending the final period in a tie.

Examples

```
try(espn_metrics_wp(game_id = 401628369))
```

---

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: **integer.** Season of the Football Power Index (FPI) Rating.

team_id: **integer.** Unique ESPN team ID - team_id.

team_name: **character.** Team Name.

team_abbreviation: **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.

projected_wins: **character.** Projected Win total for the season.

projected_losses: **character.** Projected Loss total for the season.

win_out_pct: **double.** Probability the team wins out.

win_6_pct: **double.** Probability the team wins at least six games.

win_division_pct: **double.** Probability the team wins at their division.

playoff_pct: **double.** Probability the team reaches the playoff.

nc_game_pct: **double.** Probability the team reaches the national championship game.

nc_win_pct: **double.** Probability the team wins the national championship game.

win_conference_pct: **double.** Probability the team wins their conference game.

w: **integer.** Wins on the season.

l: **integer.** 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 update_cfb_db())
dbConnection	A DBIConnection object, as returned by DBI::dbConnect()
tablename	The name of the play by play data table within the database

Value

Returns a tibble with play-by-play data

Source

CFB Play-by-Play Data releases can be found here: https://github.com/sportsdataverse/sportsdataverse-data/releases/tag/cfbfastR_cfb_pbp

See Also

Issues with this data should be filed here: https://github.com/sportsdataverse/cfbfastR-data

update_cfb_db()

Other loaders: load_cfb_rosters(), load_cfb_schedules(), load_cfb_teams(), update_cfb_db()

load_cfb_rosters *Load College Football Rosters*

Description

Loads team rosters for specified seasons. This function wraps the cfbd_team_roster() function sourced from the College Football Data API.

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>

Other loaders: [load_cfb_pbp()](#), [load_cfb_schedules()](#), [load_cfb_teams()](#), [update_cfb_db()](#)

Examples

```
try(load_cfb_rosters(2024))
```

load_cfb_schedules *Load CFB Game/Schedule Data from data repo*

Description

This function returns game/schedule information for the specified season(s). This function wraps the cfbd_game_info() function sourced from the College Football Data API.

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

Other loaders: load_cfb_pbp(), load_cfb_rosters(), load_cfb_teams(), update_cfb_db()

Examples

```
try(load_cfb_schedules(2024))
```

---

load_cfb_teams   *Load CFB team info from the data repo*

Description

Loads team information including colors and logos - useful for plots! This function wraps the cfbd_team_info() function sourced from the College Football Data API.

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

Other loaders: load_cfb_pbp(), load_cfb_rosters(), load_cfb_schedules(), update_cfb_db()

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_cfbd   **CFBD API Key Registration**

Description

Save your API Key as a system environment variable CFBD_API_KEY

Usage

```
cfbd_key()

has_cfbd_key()

cfbd_api_key_info()
```

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=YOUR-API-KEY-HERE 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 (with**out** quotations)

```
CFBD_API_KEY = YOUR-API-KEY-HERE
```

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 = "YOUR-API-KEY-HERE")
```

Get information about your API key, including your Patreon level and usage limits.

Value

Returns a data frame with 2 variables:

col_name	types
patron_level	integer
remaining_calls	integer

---

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 DBI::dbConnect() (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.

Value

Invisibly returns NULL. The function is called for its side effects.

See Also

Other loaders: load_cfb_pbp(), load_cfb_rosters(), load_cfb_schedules(), load_cfb_teams()

Index