

Package: recruitR (via r-universe)

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Title A College Sports Recruiting Package

Version 0.0.3

Description As a college sports recruiting package, recruitR provides users with the access to 247 Composite rankings and recruit information from the CollegeFootballData API.

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

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

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cfb_conf_types_df	<i>College Football Conference</i>
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Description

This dataframes is used internally to identify conference names and use the abbreviation in the function call for data

Usage

cfb_conf_types_df

Format

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 ...

Source

<https://api.collegefootballdata.com>

cfbd_recruiting_player

Get player recruiting rankings

Description

Get player recruiting rankings

Usage

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

Arguments

year	(<i>Integer</i> optional): Year, 4 digit format (YYYY) - Minimum: 2000, Maximum: 2020 currently
team	(<i>String</i> optional): D-I Team
recruit_type	(<i>String</i> optional): default API return is 'HighSchool', other options include 'JUCO' or 'PrepSchool' - For position group information
state	(<i>String</i> optional): Two letter State abbreviation
position	(<i>String</i> optional): Position Group - options include: • 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.

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

Value

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

team: **character.** Recruiting team.

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

position_group: **character.** Position group of the recruits.

avg_rating: **double.** Average rating of the recruits in the position group.

total_rating: **double.** Sum of the ratings of the recruits in the position group.

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

avg_stars: **double.** Average stars of the recruits in the position group.

Examples

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

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

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

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

Description

Get college football recruiting team rankings information.

Usage

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

Arguments

year	(<i>Integer</i> optional): Recruiting Class Year, 4 digit format (YYYY). <i>Note: 2000 is the minimum value</i>
team	(<i>String</i> optional): Team - Select a valid team, D1 football

Value

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

year: **integer.** Recruiting class year.

rank: **integer.** Team Recruiting rank.

team: **character.** Recruiting Team.

points: **character.** Team talent points.

Examples

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

cfbd_recruiting_transfer_portal

Get Transfer Portal Data

Description

Get Transfer Portal Data

Usage

```
cfbd_recruiting_transfer_portal(year)
```

Arguments

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

Value

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

`season:integer` Season of transfer.
`first_name:character` Player's first name.
`last_name:character` Player's last name.
`position:character` Player position.
`origin:character` original team.
`destination:character` new team.
`transfer_date:character` Date of transfer.
`rating:character` Player's 247 transfer rating.
`stars:integer` Player's star rating.
`eligibility:character` Player's eligibility status.

Examples

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

`cfbd_team_roster`**Get team rosters**

Description

Get a teams full roster by year. If team is not selected, API returns rosters for every team from the selected year.

Usage

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

Arguments

`year` (*Integer* required): Year, 4 digit format (YYYY)
`team` (*String* optional): Team, select a valid team in D-I football

Value

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

`athlete_id: character` Referencing athlete id.
`first_name: character` Athlete first name.
`last_name: character` Athlete last name.
`team: character` Team name.

weight: **integer**. Athlete weight.
 height: **integer**. Athlete height.
 jersey: **integer**. Athlete jersey number.
 year: **integer**. Athlete year.
 position: **character**. Athlete position.
 home_city: **character**. Hometown of the athlete.
 home_state: **character**. Hometown state of the athlete.
 home_country: **character**. Hometown country of the athlete.
 home_latitude: **numeric**. Hometown latitude.
 home_longitude: **number**. Hometown longitude.
 home_county_fips: **integer**. Hometown FIPS code.
 headshot_url: **character**. Player ESPN headshot url.

Examples

```
try(cfbd_team_roster(year = 2013, team = "Florida State"))
```

cfbd_team_talent

Get composite team talent rankings for all teams in a given year

Description

Extracts team talent composite as sourced from 247 rankings

Usage

```
cfbd_team_talent(year = NULL)
```

Arguments

year *(Integer optional)*: Year 4 digit format (YYYY)

Value

`cfbd_team_talent()` - A data frame with 3 variables:

year: **integer**. Season for the talent rating.
 school: **character**. Team name.
 talent: **double**. Overall roster talent points (as determined by 247Sports).

Examples

```
try(cfbd_team_talent())

try(cfbd_team_talent(year = 2018))
```

cfbd_venues

CFBD Venues Endpoint Overview**Description**

Pulls all college football venues and data on capacity, grass, city/state, location, elevation, dome, timezone and construction year.

Usage

```
cfbd_venues()
```

Details

CFB Venue Information

```
cfbd_venues()
```

Value

A data frame with 337 rows and 13 variables:

venue_id:integer. Referencing venue ID.

name:character. Venue name.

capacity:integer. Stadium capacity.

grass:logical. TRUE/FALSE response on whether the field is grass or not (oh, and there are so many others).

city:character. Venue city.

state:character. Venue state.

zip:character. Venue zip.

country_code:character. Venue country code.

location:list. Venue location.

elevation:character. Venue elevation.

year_constructed:integer. Year in which the venue was constructed.

dome:logical. TRUE/FALSE response to whether the venue has a dome or not.

timezone:character. Time zone in which the venue resides (i.e. Eastern Time -> "America/New York").

Examples

```
try(cfbid_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`

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_cfbf

CFBD API Key Registration

Description

Save your API Key as a system environment variable CFBD_API_KEY

Usage

cfbd_key()

has_cfbf_key()

Details

To get access to an API key, follow the instructions at <https://collegefootballdata.com/key>

Using the key:

You can save the key for consistent usage by adding CFBD_API_KEY=XXXX-YOUR-API-KEY-HERE-XXXXX to your .Renviron file (easily accessed via `usethis::edit_r_environ()`).

Run `usethis::edit_r_environ()`, a new script will pop open named .Renviron, **THEN** paste the following in the new script that pops up (**without** quotations)

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

Save the script and restart your RStudio session, by clicking Session (in between Plots and Build) and click Restart R

(there also exists the shortcut Ctrl + Shift + F10 to restart your session).

If set correctly, from then on you should be able to use any of the cfbf_ functions without any other changes.

For less consistent usage:

At the beginning of every session or within an R environment, save your API key as the environment variable CFBD_API_KEY (**with** quotations) using a command like the following.

```
Sys.setenv(CFBD_API_KEY = "XXXX-YOUR-API-KEY-HERE-XXXXX")
```

tfs_recruiting_rankings

Get 247 CFB Player Recruiting Rankings

Description

Get 247 CFB Player Recruiting Rankings

Usage

```
tfs_recruiting_rankings(year, recruit_type = "HighSchool", pages = 5)
```

Arguments

- year (*Integer* optional): Year, 4 digit format (YYYY) - Minimum: 2000, Maximum: 2020 currently
- recruit_type (*String* optional): default API return is 'HighSchool', other options include 'JUCO' or 'PrepSchool' - For position group information
- pages Number of pages

Value

```
tfs_recruiting_rankings()
```

Examples

```
try(tfs_recruiting_rankings(2022))
```

tfs_recruitment

Get 247 Recruitment

Description

Get 247 Recruitment

Usage

```
tfs_recruitment(recruitment_id)
```

Arguments

- recruitment_id (*Integer*)

Value`tfs_recruitment()`**Examples**

```
tfs_recruitment(recruitment_id = 130361)
```

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