Package ‘fflr’

April 6, 2022

Title  Retrieve ESPN Fantasy Football Data
Version  2.0.3
Description  Format the raw data from the ESPN fantasy football API
Retrieve data on public leagues, rosters, athletes, and matches.
License  MIT + file LICENSE
Depends  R (>= 2.10)
Imports  httr (>= 1.4.2), jsonlite (>= 1.7.2), tibble (>= 3.1.3)
Suggests  knitr (>= 1.34), rmarkdown (>= 2.11), spelling (>= 2.2),
testthat (>= 3.0.0), xml2 (>= 1.3.2)
VignetteBuilder  knitr
Config/testthat/edition  3
Encoding  UTF-8
Language  en-US
LazyData  true
RoxygenNote  7.1.2
NeedsCompilation  no
Author  Kiernan Nicholls [aut, cre, cph]
Maintainer  Kiernan Nicholls <kiernann@protonmail.com>
Repository  CRAN
Date/Publication  2022-04-06 19:52:29 UTC

R topics documented:

acquisition_settings .................................................. 3
all_players ............................................................ 3
best_roster ........................................................... 4
combine_history ....................................................... 5
draft_recap ............................................................ 6
draft_settings .......................................................... 6
espn_games ................................................................. 7
ffr ................................................................. 8
ffl_id ............................................................ 8
ffl_info ............................................................ 9
ffl_seasons .......................................................... 10
finance_settings ....................................................... 10
league_info ........................................................ 11
league_members ....................................................... 12
league_messages ...................................................... 12
league_name ........................................................ 13
league_simulation ...................................................... 14
league_size ........................................................ 15
league_standings ...................................................... 15
league_status ........................................................ 16
league_teams ........................................................ 17
list_players .......................................................... 18
live_scoring .......................................................... 20
nfl_players .......................................................... 20
nfl_schedule .......................................................... 21
nfl_teams ............................................................. 22
opponent_ranks ...................................................... 22
player_acquire ....................................................... 23
player_info .......................................................... 23
player_news .......................................................... 24
player_outlook ....................................................... 25
pro_events ........................................................... 25
pro_schedule .......................................................... 26
pro_scores ........................................................... 27
recent_activity ....................................................... 27
roster_score .......................................................... 28
roster_settings ....................................................... 29
schedule_settings .................................................... 29
scoring_settings ...................................................... 30
start_roster .......................................................... 31
stat_corrections ....................................................... 32
team_abbrev .......................................................... 32
team_roster .......................................................... 33
tidy_schedule .......................................................... 34
tidy_scores ........................................................... 35
trade_settings ......................................................... 36
transaction_counter ..................................................... 36

Index ................................................................. 38
acquisition_settings  
League waiver settings

Description
The type, days, and details of a league waiver process.

Usage
acquisition_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)

Arguments
leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.
leagueHistory  logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
...  Additional queries passed to http::GET(). Arguments are converted to a named list and passed to query alongside view.

Value
A data frame of waiver settings by season.

See Also
Other league settings functions: draft_settings(), finance_settings(), league_info(), league_name(), league_size(), roster_settings(), schedule_settings(), scoring_settings(), trade_settings()

Examples
acquisition_settings(leagueId = "42654852")

all_players  All fantasy players (deprecated)

Description
See list_players().

Usage
all_players(...)
Arguments

Arguments passed to the new `list_players()` function.

See Also

Other player functions: `list_players()`, `player_info()`, `player_news()`, `player_outlook()`, `recent_activity()`, `transaction_counter()`

Examples

```r
## Not run:
all_players()

## End(Not run)
```

---

**best_roster**

*Sort the optimal fantasy roster*

Description

Uses the roster settings for each league to find the best possible combinations of players to score the most fantasy points.

Usage

```r
best_roster(
leagueId = ffl_id(),
useScore = c("actualScore", "projectedScore"),
scoringPeriodId = NULL,
...
)
```

Arguments

- `leagueId` Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `useScore` One of "projectedScore" or "actualScore" (default).
- `scoringPeriodId` Integer week of NFL season. By default, NULL will use the current week (see `ffl_week()`). Scoring periods are always one week in length, whereas matchups might be longer.
- `...` Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

Details

If `scoringPeriodId` is the current week (the default), then actual scoring might be incomplete (see `projectedScore` argument).
Value

A dataframe (or list) with optimal rosters.

See Also

Other roster functions: `roster_score()`, `start_roster()`, `team_roster()`

Examples

```r
best_roster(leagueId = "42654852", scoringPeriodId = 1)
```

```r
combine_history(tidy_scores, leagueId = "252353")
```
### draft_recap

**Fantasy draft history**

**Description**

Return the sequential result of a fantasy draft pick, whether snake or salary cap format.

**Usage**

```r
draft_recap(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

**Arguments**

- `leagueId` Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `leagueHistory` logical: Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- `...` Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame(s) of draft picks.

**See Also**

Other league functions: `league_members()`, `league_messages()`, `league_standings()`, `league_status()`, `league_teams()`, `tidy_schedule()`, `transaction_counter()`

**Examples**

```r
draft_recap(leagueId = "42654852")
```

---

### draft_settings

**League draft settings**

**Description**

The type, date, and pick order of a league draft.

**Usage**

```r
draft_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```
Arguments

leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.

leagueHistory  logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

Value

A data frame of league draft settings by season.

See Also

Other league settings functions: `acquisition_settings()`, `finance_settings()`, `league_info()`, `league_name()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`, `trade_settings()`

Examples

draft_settings(leagueId = "42654852")

---

espn_games  List all fantasy games

Description

List all fantasy games

Usage

espn_games()

Value

A tibble of fantasy games.

See Also

Other Game information: `ffl_info()`, `ffl_seasons()`

Examples

espn_games()}
fflr

fflr: A package for collecting ESPN fantasy football data

Description

The fflr package parses the JSON data returned by the ESPN v3 API into tidy data frames for easy analysis. The package also includes data objects for the NFL with players, teams, and the 2021 schedule. The league must first be made viewable to the public by the league manager, which can be done on the basic settings page on the ESPN website. Functions can then take the numeric league ID found in the URL to return data from the API. This league ID can be set as a global option named "fflr.leagueId" with options().

ffl_id

Get ESPN fantasy league ID

Description

Retrieve league ID from global options, as an input, or from a URL.

Usage

ffl_id(leagueId = getOption("fflr.leagueId"), overwrite = FALSE)

Arguments

leagueId Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.

overwrite logical; If an fflr.leagueId option exists, should it be temporarily changed for your current session.

Details

Since many users request data from the same ESPN league when using this package, you can use this function to set, call, or extract the unique ESPN league ID. By default, this function uses getOption("fflr.leagueId") to look for a default league ID defined in your options(). If no such option exists, and one is provided to the leagueId argument, the option will be temporarily defined for your current session. If a URL starting with http is provided, the numeric league ID will be extracted, defined as the temporary option, and returned as a character string.

Value

A numeric leagueId as a character vector with length one.
**ffl_info**  

Get fantasy football information

**Description**

Information on the current fantasy football season, with functions to quickly access and modify certain information (like the current seasonId or scoringPeriodId).

**Usage**

```r
ffl_info()

ffl_year(offset = 0)

ffl_week(offset = 0)
```

**Arguments**

- `offset`  
  Add negative or positive values.

**Value**

A list of season information.

**See Also**

Other Game information: `espn_games()`, `ffl_seasons()`

**Examples**

```r
str(ffl_info())
Sys.time()
ffl_year()
ffl_week(-1)
```
ffl_seasons  List past fantasy football seasons

Description
List past fantasy football seasons

Usage
ffl_seasons()

Value
A tibble of fantasy football seasons.

See Also
Other Game information: espn_games(), ffl_info()

Examples
ffl_seasons()

finance_settings  League finance settings

Description
The off-site fees assigned to various roster movies and transactions.

Usage
finance_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)

Arguments
leagueId	Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.
leagueHistory	logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
...	Additional queries passed to \texttt{httr::GET()}. Arguments are converted to a named list and passed to \texttt{query} alongside \texttt{view}.

Value
A data frame of finance settings by season.
See Also

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `league_info()`, `league_name()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`, `trade_settings()`

Examples

```r
finance_settings(leagueId = "42654852")
```

---

### league_info

#### League information

**Description**

Basic information on an ESPN fantasy football league, like the name, size, and season length.

**Usage**

```r
league_info(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

**Arguments**

- `leagueId`: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `leagueHistory`: logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- `...`: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame of league information by season.

**See Also**

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `finance_settings()`, `league_name()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`, `trade_settings()`

**Examples**

```r
league_info(leagueId = "42654852")
```
league_members

**Fantasy league teams**

**Description**

The teams in a league and their owners.

**Usage**

league_members(leagueId = ffl_id(), leagueHistory = FALSE, ...)

**Arguments**

- **leagueId**
  - Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- **leagueHistory**
  - logical: Should the `leagueHistory` version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
- **...**
  - Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A dataframe (or list) with league members.

**See Also**

Other league functions: `draft_recap()`, `league_messages()`, `league_standings()`, `league_status()`, `league_teams()`, `tidy_schedule()`, `transaction_counter()`

**Examples**

league_members(leagueId = "42654852")

---

league_messages

**Fantasy league teams**

**Description**

The emails, chats, notes, and messages sent by league members.

**Usage**

league_messages(leagueId = ffl_id(), leagueHistory = FALSE, ...)

---
**league_name**

**Arguments**

leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.

leagueHistory logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

... Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A character vector.

**See Also**

Other league functions: `draft_recap()`, `league_members()`, `league_standings()`, `league_status()`, `league_teams()`, `tidy_schedule()`, `transaction_counter()`

**Examples**

```r
league_messages(leagueId = "42654852")
```

### Description

League name

### Usage

```r
league_name(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

### Arguments

leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.

leagueHistory logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

... Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

### Value

A character vector.
See Also

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `finance_settings()`, `league_info()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`, `trade_settings()`

Examples

```
league_name(leagueId = "42654852")
```

---

## league_simulation

### Description

The ESPN algorithm simulates the entire season according to the projection and matchup schedule to calculate the probability of a team winning their division and making the playoffs.

### Usage

```
league_simulation(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

### Arguments

- **leagueId**: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- **leagueHistory**: logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- **...**: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

### Value

A data frame of simulated team standings.

### Examples

```
league_simulation(leagueId = "42654852")
```
### league_size

**League size**

**Description**
League size

**Usage**

```r
league_size(leagueId = ff1_id(), leagueHistory = FALSE, ...)
```

**Arguments**

- `leagueId`: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `leagueHistory`: logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- `...`: Additional queries passed to `http::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame of league size by season.

**See Also**

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `finance_settings()`, `league_info()`, `league_name()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`, `trade_settings()`

**Examples**

```r
league_size(leagueId = "42654852")
```

---

### league_standings

**League standings**

**Description**
Return the current and projected standings, win streak, total wins, losses, and points scored for and against each team.

**Usage**

```r
league_standings(leagueId = ff1_id(), leagueHistory = FALSE, ...)
```
Arguments

leagueId Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
leagueHistory logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

... Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

Value

A data frame of team standings.

See Also

Other league functions: `draft_recap()`, `league_members()`, `league_messages()`, `league_status()`, `league_teams()`, `tidy_schedule()`.

Examples

```r
league_standings(leagueId = "42654852")
```

---

**league_status**

**League status**

Description

Current information about a league: the date activated, current week, starting week, final week, past seasons, teams joined, and waiver status.

Usage

```r
league_status(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

Arguments

leagueId Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
leagueHistory logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

... Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

Value

A data frame of league status by season.
See Also

Other league functions: `draft_recap()`, `league_members()`, `league_messages()`, `league_standings()`, `league_teams()`, `tidy_schedule()`, `transaction_counter()`

Examples

```
league_status(leagueId = "42654852")
```

---

**league_teams**

**Fantasy league teams**

Description

The teams in a league and their owners.

Usage

```
league_teams(leagueId = ff1_id(), leagueHistory = FALSE, ...)
```

Arguments

- **leagueId**: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("ffl.r.leagueId")`. Function fails if no ID is found.
- **leagueHistory**: logical; Should the `leagueHistory` version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
- **...**: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

Details

If any team has multiple owners, the `memberId` column will be a list of unique owner member ID strings per team (see `league_members()`).

Value

A dataframe (or list) with league teams.

See Also

Other league functions: `draft_recap()`, `league_members()`, `league_messages()`, `league_standings()`, `league_status()`, `tidy_schedule()`, `transaction_counter()`

Examples

```
league_teams(leagueId = "42654852")
```
**list_players**

*Find fantasy players*

**Description**

Filter fantasy players by their position, availability, professional team, and/or injury status. Sort and limit the responses in the same way as is done in the ESPN Fantasy Football website.

**Usage**

```r
list_players(
  leagueId = ffl_id(),
  sort = "ROST",
  position = NULL,
  status = "AVAILABLE",
  injured = NULL,
  proTeam = NULL,
  scoreType = c("STANDARD", "PPR"),
  limit = 50
)
```

**Arguments**

- `leagueId` Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `sort` The column from which to sort the data. Options match those on the ESPN website:
  - "PLAYER" = Alphabetical by player name
  - "PROJ" = Projection is ESPN's projected fantasy score for a player's upcoming game.
  - "SCORE" = Actual score for `scoringPeriodId`
  - "OPRK" = Opponent Rank shows how a player's upcoming NFL opponent performs against that player's position. Low numbers mean it may be a tough opponent; high numbers an easier opponent.
  - "START" = Start Percentage shows the number of fantasy leagues a player is started in divided by the number of leagues he is eligible in. This helps indicate how the public views a player.
  - "ROST" = Rostered Percentage shows the number of fantasy leagues in which a player is on a roster divided by the total number of fantasy leagues. This helps indicate how the public views a player.
  - "CHANGE" = Plus/Minus shows the change in %ROST over the last week. This will help show which players are hot and cold at a given moment.
  - "PRK" = Position Rank shows how a player stacks up against other players at his position. No. 1 is best.
  - "FPTS" = Total fantasy points scored thus far in the season.
• "AVG" = Average fantasy points scored in each game started.
• "LAST" = Last shows the player's fantasy score in his team's last game.

**position**
Abbreviation of player positions to filter, NULL for all:
• "QB" = Quarterback
• "RB" = Running Back
• "WR" = Wide Receiver
• "TE" = Tight End
• "FLEX" = Running Backs, Wide Receivers and Tight Ends can be used in this position
• "D/ST" = Defense and Special Teams
• "K" = Kicker

**status**
Availability status of player, one or more from:
• "ALL"
• "AVAILABLE" (default)
• "FREEAGENT"
• "WAIVERS"
• "ONTTEAM"

**injured**
Whether to return only injured or healthy players. Use NULL (default) for all players, TRUE for injured players, and FALSE for healthy players.

**proTeam**
The abbreviation or ID of the professional team from which players should be returned. See `pro_teams()` for a list of all possible team abbreviations.

**scoreType**
The type of scoring used: "STANDARD" or "PPR."

**limit**
The limit of players to return. Use "" or NULL to return all. Defaults to 50, which is the default limit used by ESPN. Removing the limit can make the request take a long time.

**Value**
A data frame of players.

**See Also**
Other player functions: `all_players()`, `player_info()`, `player_news()`, `player_outlook()`, `recent_activity()`, `transaction_counter()`

**Examples**
```
list_players("42654852", proTeam = "Mia", sort = "START", limit = 3)
```
### live_scoring  
*Live matchup scoreboard*

**Description**

The current and projected score for each ongoing match.

**Usage**

```r
live_scoring(leagueId = ffl_id(), yetToPlay = FALSE, ...)
```

**Arguments**

- `leagueId`: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `yetToPlay`: If `TRUE`, `pro_schedule()` and the "mRoster" view are called to determine how many starting players have yet started playing.
- `...`: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame of scores by period.

**See Also**

Other scoring functions: `tidy_scores()`

**Examples**

```r
live_scoring(leagueId = "42654852", yetToPlay = FALSE)
```

### nfl_players  
*2021 NFL Players*

**Description**

All available ESPN fantasy football players as of the 2021 season, week 1.

**Usage**

```r
nfl_players
```
nfl_schedule

Format

A data frame with 1,063 rows and 11 variables:

- **playerId**: Unique ESPN player ID
- **firstName**: First name
- **lastName**: Last name
- **proTeam**: Professional NFL team
- **defaultPositionId**: Position: QB, RB, WR, TE, D/ST
- **jersey**: Jersey number
- **weight**: Weight in integer pounds
- **height**: Height in integer inches
- **age**: Current age in integer year
- **dateOfBirth**: Date of birth
- **debutYear**: Season debuted in league ...

Source

http://sports.core.api.espn.com/v2/sports/football/leagues/nfl/seasons/2021/athletes/

---

nfl_schedule

**2021 NFL Schedule**

Description

The 2021 NFL season schedule by team, as of September 10th.

Usage

nfl_schedule

Format

A data frame with 544 rows and 6 variables:

- **seasonId**: Season year
- **scoringPeriodId**: Scoring period
- **matchupId**: Unique ID for professional matchup
- **proTeam**: Professional team abbreviation
- **opponent**: Professional team opponent
- **isHome**: Whether this is the home team
- **date**: Matchup start date and time ...

Source

nfl_teams  

2021 NFL Teams

Description

The 32 professional NFL teams as of the 2021 season.

Usage

nfl_teams

Format

A data frame with 33 rows and 6 columns:

- proTeamId  Unique team ID
- abbrev  Professional team abbreviation
- location  Professional team geographic location
- name  Professional team full nickname
- byeWeek  Bye week, no game played
- conference  NFL conference ...

Source


opponent_ranks

NFL team performance against positions

Description

The average opposition team point differential by position.

Usage

opponent_ranks(leagueId = ffl_id())

Arguments

- leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.

Value

A data frame of team performance against position.
**Examples**

player_acquire(leagueId = ff1_id(), leagueHistory = FALSE, ...)

---

**Description**

The date and method of each player’s acquisition onto a fantasy roster.

**Usage**

player_acquire(leagueId = ff1_id(), leagueHistory = FALSE, ...)

**Arguments**

- `leagueId`: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `leagueHistory`: logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- `...`: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame of roster players with acquisition method and date.

**Examples**

player_acquire(leagueId = "42654852")

---

**Description**

Individual player information

**Usage**

player_info(playerId)

**Arguments**

- `playerId`: A single player ID number.
Value

A list or row of a single player’s information.

See Also

Other player functions: all_players(), list_players(), player_news(), player_outlook(), recent_activity(), transaction_counter()

Examples

player_info(playerId = 15847)

player_news

Description

The free and premium ESPN stories on given players. A maximum of 50 stories can be returned at a time.

Usage

player_news(playerId, parseHTML = FALSE)

Arguments

playerId A single player ID number.
parseHTML Should HTML stories be parsed with xml2::read_html()?}

Value

A data frame of news stories.

See Also

Other player functions: all_players(), list_players(), player_info(), player_outlook(), recent_activity(), transaction_counter()

Examples

player_news(playerId = "15847")
player_outlook

Description
All available weekly ESPN outlook writeups for NFL players.

Usage
player_outlook(leagueId = ffl_id(), limit = 50)

Arguments
<table>
<thead>
<tr>
<th>leagueId</th>
<th>Numeric league ID or ESPN fantasy page URL. Defaults to getOption(&quot;fflr.leagueId&quot;). Function fails if no ID is found.</th>
</tr>
</thead>
<tbody>
<tr>
<td>limit</td>
<td>The limit of players to return. Use &quot;&quot; or NULL to return all. Defaults to 50, which is the default limit used by ESPN. Removing the limit can make the request take a long time.</td>
</tr>
</tbody>
</table>

Value
A data frame of player outlooks by scoring period.

See Also
Other player functions: all_players(), list_players(), player_info(), player_news(), recent_activity(), transaction_counter()

Examples
player_outlook()

pro_events

Description
Data on the status of NFL games, including scores and odds, kickoff time, and broadcast information.

Usage
pro_events()

Value
A data frame of NFL events.
See Also

Other professional football functions: `pro_schedule()`

Examples

```
pro_events()
```

---

**pro_schedule**  
*Professional schedule*

Description

The opponents each team faces every week in a regular season.

Usage

```
pro_schedule(seasonId = ffl_year())
```

Arguments

```
seasonId  
Season schedule (2004-present), defaults to `ffl_year()`.
```

Value

Data frame of team opponents by week.

See Also

Other professional football functions: `pro_events()`

Examples

```
pro_schedule(seasonId = ffl_year(-2))
```
**pro_scores**  

**Professional scores**

**Description**

The tidy data frame of scores by team.

**Usage**

```r
pro_scores()
```

**Value**

A data frame of NFL scores.

**Examples**

```r
pro_scores()
```

---

**recent_activity**  

**Roster moves**

**Description**

The individual proposed and executed transactions, trades, and waiver moves.

**Usage**

```r
recent_activity(
  leagueId = ffl_id(),
  leagueHistory = FALSE,
  scoringPeriodId = NULL,
  ...
)
```

**Arguments**

- `leagueId`  
  Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.

- `leagueHistory`  
  logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.

- `scoringPeriodId`  
  Integer week of NFL season. By default, `NULL` will use the current week (see `ffl_week()`). Scoring periods are always one week in length, whereas matchups might be longer.

- `...`  
  Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to query alongside `view`. 
Details
As of November 2021, activity data related to trades coming from the API is flawed. The items list column containing the players involved in a trade will only contain data for rejected trades (with an executionType of "CANCEL"). For accepted and upheld trades, that items element is NULL or an empty list. This flaw comes from the API itself, not processing done by this package.

Value
A data frame of transactions and roster moves.

See Also
Other player functions: all_players(), list_players(), player_info(), player_news(), player_outlook(), transaction_counter()

Examples
recent_activity(leagueId = "42654852", scoringPeriodId = 2)

<table>
<thead>
<tr>
<th>roster_score</th>
<th>Sum of starting scores in a roster</th>
</tr>
</thead>
</table>

Description
For a given roster tibble, sum the starting scores.

Usage
roster_score(roster, useScore = c("actualScore", "projectedScore"))

Arguments
roster A roster data frame from team_roster().
useScore One of "projectedScore" or "actualScore" (default).

Value
A starting score as double.

See Also
Other roster functions: best_roster(), start_roster(), team_roster()

Examples
roster_score(team_roster(leagueId = "42654852")[[1]])
roster_settings  
League roster settings

Description
The number of players and positions on a fantasy football roster.

Usage
roster_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)

Arguments
leagueId  Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.
leagueHistory  logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
...  Additional queries passed to http::GET(). Arguments are converted to a named list and passed to query alongside view.

Value
A data frame of league roster settings by season.

See Also
Other league settings functions: acquisition_settings(), draft_settings(), finance_settings(), league_info(), league_name(), league_size(), schedule_settings(), scoring_settings(), trade_settings()

Examples
roster_settings(leagueId = "42654852")

schedule_settings  
League schedule settings

Description
The length of a fantasy season and the match periods for each week.

Usage
schedule_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)
scoring_settings

Arguments

leagueId

Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.

leagueHistory

logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

...

Additional queries passed to httr::GET(). Arguments are converted to a named list and passed to query alongside view.

Value

A data frame of league scoring settings by season.

See Also

Other league settings functions: acquisition_settings(), draft_settings(), finance_settings(), league_info(), league_name(), league_size(), roster_settings(), scoring_settings(), trade_settings()

Examples

schedule_settings(leagueId = "42654852")

scoring_settings

League scoring settings

Description

The scoring system used and points awarded for various actions.

Usage

scoring_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)

Arguments

leagueId

Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.

leagueHistory

logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

...

Additional queries passed to httr::GET(). Arguments are converted to a named list and passed to query alongside view.

Value

A data frame of league scoring settings by season.
See Also

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `finance_settings()`, `league_info()`, `league_name()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `trade_settings()`

Examples

```r
scoring_settings(leagueId = "42654852")
```

---

### start_roster

**Starting roster**

**Description**

The starting 9 man roster using standard roster slots. In the future this function may be adapted to take roster slots from `roster_settings()`.

**Usage**

```r
start_roster(roster)
```

**Arguments**

- `roster` A roster data frame from `team_roster()`.

**Value**

A data frame of starters on a roster.

**See Also**

Other roster functions: `best_roster()`, `roster_score()`, `team_roster()`

**Examples**

```r
start_roster(team_roster(leagueId = "42654852"))[[1]])
```
### stat_corrections

**Stat corrections**

**Description**
Weekly retroactive stat corrections by player.

**Usage**

```r
stat_corrections(date = Sys.Date(), limit = 100)
```

**Arguments**

- **date**: A date in the scoring week to return. Defaults to system date.
- **limit**: The limit of corrections to return. Use "" or NULL to return all. Defaults to 100, which is the default limit used by ESPN. Removing the limit can make the request take a long time.

**Value**
A data frame of stat corrections.

**Examples**

```r
stat_corrections(date = "2021-09-13")
```

### team_abbrev

**Convert team ID to abbreviation**

**Description**
Convert team ID to abbreviation.

**Usage**

```r
team_abbrev(teamId, teams = league_teams(leagueId = ffl_id()))
```

**Arguments**

- **teamId**: A integer vector of team numbers to convert.
- **teams**: A table of teams, like that from `league_teams()`.

**Value**
A factor vector of team abbreviations.
team_roster

Description
The roster of all teams in a league.

Usage

team_roster(
  leagueId = ffl_id(),
  leagueHistory = FALSE,
  scoringPeriodId = NULL,
  ...
)

Arguments
leagueId Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.
leagueHistory logical; Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.
scoringPeriodId Integer week of NFL season. By default, NULL will use the current week (see ffl_week()). Scoring periods are always one week in length, whereas matchups might be longer.
...

Value
A dataframe (or list) with league teams.

See Also
Other roster functions: best_roster(), roster_score(), start_roster()

Examples

team_roster(leagueId = "42654852", scoringPeriodId = 1)
**tidy_schedule**

*Fantasy match schedule*

**Description**

The opponents each team faces every week in a fantasy regular season. Returned in a tidy format where each row is a single team with an indication of home-away status. There are two rows per matchup, one for each team.

**Usage**

```r
tidy_schedule(leagueId = ffl_id(), leagueHistory = FALSE, ...)
tidy_matchups(...)```

**Arguments**

- `leagueId`: Numeric league ID or ESPN fantasy page URL. Defaults to `getOption("fflr.leagueId")`. Function fails if no ID is found.
- `leagueHistory`: logical; Should the `leagueHistory` version of the API be called? If `TRUE`, a list of results is returned, with one element for each historical year of the league.
- `...`: Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

**Value**

A data frame(s) of match opponents.

**See Also**

Other league functions: `draft_recap()`, `league_members()`, `league_messages()`, `league_standings()`, `league_status()`, `league_teams()`, `transaction_counter()`

**Examples**

```r
tidy_schedule(leagueId = "42654852")```
tidy_scores

Fantasy matchup scores

Description
The score of each team in a matchup or scoring period and the match outcome.

Usage
tidy_scores(leagueId = ffl_id(), leagueHistory = FALSE, useMatchup = TRUE, ...)

Arguments

leagueId Numeric league ID or ESPN fantasy page URL. Defaults to getOption("fflr.leagueId"). Function fails if no ID is found.

leagueHistory logical: Should the leagueHistory version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.

useMatchup logical: Whether scoring should be summarized by matchupPeriodId (default) or scoringPeriodId. The later always relates to a single week of the NFL season, while fantasy matchups might span several scoring periods, especially in the playoffs.

... Additional queries passed to httr::GET(). Arguments are converted to a named list and passed to query alongside view.

Details

expectedWins are calculated by comparing a team score against all other scores for a given matchup period. This statistic expresses how a team would fair if the schedule was random. The highest scoring team is thus expected to earn 1 win and the lowest scoring team would expect to win 0 matches.

Value
A tidy data frame of scores by team and matchup/scoring period.

See Also
Other scoring functions: live_scoring()

Examples
tidy_scores(leagueId = "42654852", useMatchup = FALSE)
### trade_settings

**League trade settings**

**Description**

The time each trade can stand, votes needed to veto, and season deadline.

**Usage**

```r
trade_settings(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>leagueId</code></td>
<td>Numeric league ID or ESPN fantasy page URL. Defaults to <code>getOption(&quot;fflr.leagueId&quot;)</code>. Function fails if no ID is found.</td>
</tr>
<tr>
<td><code>leagueHistory</code></td>
<td>logical: Should the <code>leagueHistory</code> version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.</td>
</tr>
<tr>
<td>...</td>
<td>Additional queries passed to <code>httr::GET()</code>. Arguments are converted to a named list and passed to <code>query</code> alongside <code>view</code>.</td>
</tr>
</tbody>
</table>

**Value**

A data frame of league trade settings by season.

**See Also**

Other league settings functions: `acquisition_settings()`, `draft_settings()`, `finance_settings()`, `league_info()`, `league_name()`, `league_size()`, `roster_settings()`, `schedule_settings()`, `scoring_settings()`

**Examples**

```r
trade_settings(leagueId = "42654852")
```

### transaction_counter

**League transactions**

**Description**

Summary of transactions and roster changes made during a season by team.

**Usage**

```r
transaction_counter(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```

```r
budget_summary(leagueId = ffl_id(), leagueHistory = FALSE, ...)
```


### Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>leagueId</td>
<td>Numeric league ID or ESPN fantasy page URL. Defaults to <code>getOption(&quot;fflr.leagueId&quot;)</code>. Function fails if no ID is found.</td>
</tr>
<tr>
<td>leagueHistory</td>
<td>logical; Should the <code>leagueHistory</code> version of the API be called? If TRUE, a list of results is returned, with one element for each historical year of the league.</td>
</tr>
</tbody>
</table>

... Additional queries passed to `httr::GET()`. Arguments are converted to a named list and passed to `query` alongside `view`.

### Value

A data frame of transaction counts by team.

### See Also

Other league functions: `draft_recap()`, `league_members()`, `league_messages()`, `league_standings()`, `league_status()`, `league_teams()`, `tidy_schedule()`

Other player functions: `all_players()`, `list_players()`, `player_info()`, `player_news()`, `player_outlook()`, `recent_activity()`

### Examples

```r
transaction_counter(leagueId = "42654852")
```
Index

* Game information
  - espn_games, 7
  - ff1_info, 9
  - ff1_seasons, 10

* datasets
  - nfl_players, 20
  - nfl_schedule, 21
  - nfl_teams, 22

* league functions
  - draft_recap, 6
  - league_members, 12
  - league_messages, 12
  - league_standings, 15
  - league_status, 16
  - league_teams, 17
  - tidy_schedule, 34
  - transaction_counter, 36

* league settings functions
  - acquisition_settings, 3
  - draft_settings, 6
  - finance_settings, 10
  - league_info, 11
  - league_name, 13
  - league_size, 15
  - roster_settings, 29
  - schedule_settings, 29
  - scoring_settings, 30
  - trade_settings, 36

* player functions
  - all_players, 3
  - list_players, 18
  - player_info, 23
  - player_news, 24
  - player_outlook, 25
  - recent_activity, 27
  - transaction_counter, 36

* professional football functions
  - pro_events, 25
  - pro_schedule, 26

* roster functions
  - best_roster, 4
  - roster_score, 28
  - start_roster, 31
  - team_roster, 33

* scoring functions
  - live_scoring, 20
  - tidy_scores, 35

  acquisition_settings, 3, 7, 11, 14, 15, 29–31, 36
  all_players, 3, 19, 24, 25, 28, 37
  best_roster, 4, 28, 31, 33
  budget_summary (transaction_counter), 36
  combine_history, 5
  draft_recap, 6, 12, 13, 16, 17, 34, 37
  draft_settings, 3, 6, 11, 14, 15, 29–31, 36
  espn_games, 7, 9, 10
  ff1_id, 8
  ff1_info, 7, 9, 10
  ff1_seasons, 7, 9, 10
  ff1_week (ff1_info), 9
  ff1_week(), 4, 27, 33
  ff1_year (ff1_info), 9
  ff1_year(), 26
  ff1r, 8
  finance_settings, 3, 7, 10, 11, 14, 15, 29–31, 36
  httr::GET(), 3, 4, 6, 7, 10–17, 20, 23, 27, 29, 30, 33–37

  league_info, 3, 7, 11, 14, 15, 29–31, 36
  league_members, 6, 12, 13, 16, 17, 34, 37
  league_members(), 17
  league_messages, 6, 12, 16, 17, 34, 37
league_name, 3, 7, 11, 13, 15, 29–31, 36
league_simulation, 14
league_size, 3, 7, 11, 14, 15, 29–31, 36
league_standings, 6, 12, 13, 15, 17, 34, 37
league_status, 6, 12, 13, 16, 16, 17, 34, 37
league_teams, 6, 12, 13, 16, 17, 17, 34, 37
league_teams(), 32
list_players, 4, 18, 24, 25, 28, 37
list_players(), 3, 4
live_scoring, 20, 35
nfl_players, 20
nfl_schedule, 21
nfl_teams, 22
opponent_ranks, 22
player_acquire, 23
player_info, 4, 19, 23, 24, 25, 28, 37
player_news, 4, 19, 24, 24, 25, 28, 37
player_outlook, 4, 19, 24, 25, 28, 37
pro_events, 25, 26
pro_schedule, 26, 26
pro_schedule(), 20
pro_scores, 27
recent_activity, 4, 19, 24, 25, 27, 37
roster_score, 5, 28, 31, 33
roster_settings, 3, 7, 11, 14, 15, 29, 30, 31, 36
roster_settings(), 31
schedule_settings, 3, 7, 11, 14, 15, 29, 29, 31, 36
scoring_settings, 3, 7, 11, 14, 15, 29, 30, 30, 36
start_roster, 5, 28, 31, 33
stat_corrections, 32
stat_corrections(), 32

xml2::read_html(), 24