

Package ‘ffscrapr’

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Type Package

Title API Client for Fantasy Football League Platforms

Version 1.4.7

Description Helps access various Fantasy Football APIs by handling authentication and rate-limiting, forming appropriate calls, and returning tidy dataframes which can be easily connected to other data sources.

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URL <https://ffscrapr.ffverse.com>, <https://github.com/ffverse/ffscrapr>,
https://api.myfantasyleague.com/2020/api_info,
<https://docs.sleeper.app>,
<https://www.fleaflicker.com/api-docs/index.html>,
<https://www.espn.com/fantasy/>,
https://www.nflfastr.com/reference/load_player_stats.html

BugReports <https://github.com/ffverse/ffscrapr/issues>

Depends R (>= 3.6.0)

Imports cachem (>= 1.0.0), checkmate (>= 2.0.0), dplyr (>= 1.0.0), glue (>= 1.3.0), httr (>= 1.4.0), jsonlite (>= 1.6.0), lifecycle, magrittr (>= 1.5.0), nflreadr (>= 1.1.0), memoise (>= 2.0.0), purrr (>= 0.3.0), rappdirs (>= 0.3.0), ratelimitr (>= 0.4.0), rlang (>= 0.4.0), stringr (>= 1.4.0), tibble (>= 3.0.0), tidyr (>= 1.0.0)

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<code>.ff_clear_cache</code>	<i>Empty Function Cache</i>
------------------------------	-----------------------------

Description

This function will reset the cache for any and all ffscraper cached functions.

Usage

```
.ff_clear_cache()
```

<code>dp_cleannames</code>	<i>Clean Names</i>
----------------------------	--------------------

Description

Applies some name-cleaning heuristics to facilitate joins. These heuristics may include:

- removing periods and apostrophes
- removing common suffixes, such as Jr, Sr, II, III, IV
- converting to lowercase
- using `dp_name_mapping` to do common name substitutions, such as Mitch Trubisky to Mitchell Trubisky

Usage

```
dp_cleannames(
  player_name,
  lowercase = FALSE,
  convert_lastfirst = TRUE,
  use_name_database = TRUE
)
```

```
dp_clean_names(
  player_name,
  lowercase = FALSE,
  convert_lastfirst = TRUE,
  use_name_database = TRUE
)
```

Arguments

player_name a character (or character vector)
 lowercase defaults to FALSE - if TRUE, converts to lowercase
 convert_lastfirst
 converts names from "Last, First" to "First Last" (i.e. MFL style)
 use_name_database
 uses internal name database to do common substitutions (Mitchell Trubisky to Mitch Trubisky etc)

Value

a character vector of cleaned names

See Also

dp_name_mapping

Examples

```

dp_cleannames(c("A.J. Green", "Odell Beckham Jr.", "Le'Veon Bell Sr.))

dp_cleannames(c("Trubisky, Mitch", "Atwell, Chatarius", "Elliott, Zeke", "Elijah Moore"),
  convert_lastfirst = TRUE,
  use_name_database = TRUE
)

```

dp_clean_html

Remove HTML from string

Description

Applies some regex to clean html tags from strings. This is useful for platforms such as MFL that interpret HTML in their franchise name fields.

Usage

```
dp_clean_html(names)
```

Arguments

names a character (or character vector)

Value

a character vector of cleaned strings

Examples

```
c(
  "<b><font color= Cyan>Kevin OBrien (@kevinobrienff) </FONT></B>",
  "<em><font color= Purple> Other fun names</font></em>"
) %>% dp_clean_html()
```

<i>dp_name_mapping</i>	<i>Alternate name mappings</i>
------------------------	--------------------------------

Description

A named character vector mapping common alternate names

Usage

```
dp_name_mapping
```

Format

A named character vector

name attribute The "alternate" name.

value attribute The "correct" name.

Examples

```
dp_name_mapping[c("Chatarius Atwell", "Robert Kelley")]
```

dp_playerids	<i>Import latest DynastyProcess player IDs</i>
--------------	--

Description

Fetches a copy of the latest DynastyProcess player IDs csv

Usage

```
dp_playerids()
```

Value

a tibble of player IDs

See Also

<https://github.com/DynastyProcess/data>

Examples

```
try( # try only shown here because sometimes CRAN checks are weird
  dp_playerids()
)
```

dp_values	<i>Import latest DynastyProcess values</i>
-----------	--

Description

Fetches a copy of the latest DynastyProcess dynasty trade values sheets

Usage

```
dp_values(file = c("values.csv", "values-players.csv", "values-picks.csv"))
```

Arguments

file one of c("values.csv", "values-players.csv", "values-picks.csv")

Value

a tibble of trade values from DynastyProcess

See Also

<https://github.com/DynastyProcess/data>

Examples

```
try( # try only shown here because sometimes CRAN checks are weird
  dp_values()
)
```

espn_connect	<i>Connect to ESPN League</i>
--------------	-------------------------------

Description

This function creates a connection object which stores parameters and a user ID if available.

Usage

```
espn_connect(
  season = NULL,
  league_id = NULL,
  swid = NULL,
  espn_s2 = NULL,
  user_agent = NULL,
  rate_limit = TRUE,
  rate_limit_number = NULL,
  rate_limit_seconds = NULL,
  ...
)
```

Arguments

season	Season to access on Fleaflicker - if missing, will guess based on system date (current year if March or later, otherwise previous year)
league_id	League ID
swid	SWID parameter for accessing private leagues - see vignette for details
espn_s2	ESPN_S2 parameter for accessing private leagues - see vignette for details
user_agent	User agent to self-identify (optional)
rate_limit	TRUE by default - turn off rate limiting with FALSE
rate_limit_number	number of calls per rate_limit_seconds, suggested is under 1000 calls per 60 seconds
rate_limit_seconds	number of seconds as denominator for rate_limit
...	other arguments (for other methods, for R compat)

Value

a list that stores ESPN connection objects

Examples

```
conn <- espn_connect(  
  season = 2018,  
  league_id = 1178049,  
  espn_s2 = Sys.getenv("TAN_ESPN_S2"),  
  swid = Sys.getenv("TAN_SWID")  
)
```

espn_getendpoint	<i>GET ESPN fantasy league endpoint</i>
------------------	---

Description

This function is used to call the ESPN Fantasy API for league-based endpoints.

Usage

```
espn_getendpoint(conn, ..., x_fantasy_filter = NULL)
```

Arguments

conn	a connection object created by <code>espn_connect</code> or <code>ff_connect()</code>
...	Arguments which will be passed as "argumentname = argument" in an HTTP query parameter
x_fantasy_filter	a JSON-encoded character string that specifies a filter for the data

Details

The ESPN Fantasy API is undocumented and this should be used by advanced users familiar with the API.

It chooses the correct league endpoint based on the year (eg `leagueHistory` for <2018), checks the `x_fantasy_filter` for valid JSON input, builds a url with any optional query parameters, and executes the request with authentication and rate limiting.

HTTP query parameters (i.e. arguments to ...) are Case Sensitive.

Please see the vignette for more on usage.

Value

A list object containing the query, response, and parsed content.

See Also

vignette("espn_getendpoint")
espn_getendpoint_raw

espn_getendpoint_raw *GET ESPN endpoint (raw)*

Description

This function is the lower-level function that powers the API call: it takes a URL and headers and executes the http request with rate-limiting and authentication. It checks for JSON return and any warnings/errors, parses the json, and returns an `espn_api` object with the parsed content, the raw response, and the actual query.

Usage

```
espn_getendpoint_raw(conn, url_query, ...)
```

Arguments

<code>conn</code>	a connection object created by <code>ff_connect</code> or equivalent - used for authentication
<code>url_query</code>	a fully-formed URL to call
<code>...</code>	any headers or other http request objects to pass along

Value

object of class `espn_api` with parsed content, request, and response

See Also

`espn_getendpoint()` - a higher level wrapper that checks JSON and prepares the url query
vignette("espn_getendpoint")

espn_players *ESPN players library*

Description

A cached table of ESPN NFL players. Will store in memory for each session! (via memoise in *zzz.R*)

Usage

```
espn_players(conn = NULL, season = NULL)
```

Arguments

conn a connection object created by `espn_connect` or `ff_connect()`
season a season to fetch

Value

a dataframe containing all ~2000+ active players in the ESPN database

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird  
  conn <- espn_connect(season = 2020, league_id = 1178049)  
  espn_players(conn, season = 2020)  
}) # end try
```

espn_potentialpoints *ESPN Potential Points*

Description

This function calculates the optimal starters for a given week, using some lineup heuristics.

Usage

```
espn_potentialpoints(conn, weeks = 1:17)
```

Arguments

conn the list object created by ff_connect()
 weeks a numeric vector for determining which weeks to calculate

Value

a tibble with the best lineup for each team and whether they were started or not

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)
  espn_potentialpoints(conn, weeks = 1:3)
}) # end try
```

ff_connect	<i>Connect to a League</i>
------------	----------------------------

Description

This function creates a connection object which stores parameters and gets a login-cookie if available - it does so by passing arguments to the appropriate league-based handler.

Usage

```
ff_connect(platform = "mfl", league_id = NULL, ...)
```

Arguments

platform one of MFL or Sleeper (Fleaflicker, ESPN, Yahoo in approximate priority order going forward)
 league_id league_id (currently assuming one league at a time)
 ... other parameters passed to the connect function for each specific platform.

Value

a connection object to be used with ff_* functions

See Also

[mfl_connect\(\)](#), [sleeper_connect\(\)](#), [fleaflicker_connect\(\)](#), [espn_connect\(\)](#)

Examples

```
ff_connect(platform = "mfl", season = 2019, league_id = 54040, rate_limit = FALSE)
```

`ff_draft`*Get Draft Results*

Description

This function gets a tidy dataframe of draft results for the current year. Can handle MFL devy drafts or startup drafts by specifying the `custom_players` argument

Usage

```
ff_draft(conn, ...)  
  
## S3 method for class 'espn_conn'  
ff_draft(conn, ...)  
  
## S3 method for class 'flea_conn'  
ff_draft(conn, ...)  
  
## S3 method for class 'mfl_conn'  
ff_draft(conn, custom_players = deprecated(), ...)  
  
## S3 method for class 'sleeper_conn'  
ff_draft(conn, ...)
```

Arguments

`conn` a conn object created by `ff_connect()`
`...` args for other methods
`custom_players` **[Deprecated]** - now returns custom players by default

Value

A tidy dataframe of draft results

Methods (by class)

- `espn_conn`: ESPN: returns the current year's draft/auction, including details on keepers
- `flea_conn`: Fleaflicker: returns a table of drafts for the current year
- `mfl_conn`: MFL: returns a table of drafts for the current year - can handle devy/startup-rookie-picks by specifying `custom_players` (slower!)
- `sleeper_conn`: Sleeper: returns a dataframe of all drafts and draft selections, if available.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)
  ff_draft(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2020, league_id = 206154)
  ff_draft(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_draft(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_draft(jml_conn)
}) # end try
```

ff_draftpicks

Get Draft Picks

Description

Returns all draft picks (current and future) that belong to a specific franchise and have not yet been converted into players (i.e. selected.)

Usage

```
ff_draftpicks(conn, ...)
```

```
## S3 method for class 'espn_conn'
ff_draftpicks(conn, ...)
```

```
## S3 method for class 'flea_conn'
ff_draftpicks(conn, franchise_id = NULL, ...)
```

```
## S3 method for class 'mfl_conn'
```

```
ff_draftpicks(conn, ...)

## S3 method for class 'sleeper_conn'
ff_draftpicks(conn, ...)
```

Arguments

conn	the list object created by ff_connect()
...	other arguments (currently unused)
franchise_id	A list of franchise IDs to pull, if NULL will return all franchise IDs

Value

Returns a dataframe with current and future draft picks for each franchise

Methods (by class)

- `espn_conn`: ESPN: does not support future/draft pick trades - for draft results, please use `ff_draft`.
- `flea_conn`: Fleaflicker: retrieves current and future draft picks, potentially for a specified team.
- `mfl_conn`: MFL: returns current and future picks
- `sleeper_conn`: Sleeper: retrieves current and future draft picks

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(
    season = 2018,
    league_id = 1178049,
    espn_s2 = Sys.getenv("TAN_ESPN_S2"),
    swid = Sys.getenv("TAN_SWID")
  )

  ff_draftpicks(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(2020, 206154)
  ff_draftpicks(conn, franchise_id = 1373475)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  dlf_conn <- mfl_connect(2020, league_id = 37920)
  ff_draftpicks(conn = dlf_conn)
```

```
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_draftpicks(jml_conn)
}) # end try
```

ff_franchises	<i>Get League Franchises</i>
---------------	------------------------------

Description

Return franchise-level data (including divisions, usernames, etc) - available data may vary slightly based on platform.

Usage

```
ff_franchises(conn)

## S3 method for class 'espn_conn'
ff_franchises(conn)

## S3 method for class 'flea_conn'
ff_franchises(conn)

## S3 method for class 'mfl_conn'
ff_franchises(conn)

## S3 method for class 'sleeper_conn'
ff_franchises(conn)
```

Arguments

conn a conn object created by ff_connect()

Value

A tidy dataframe of franchises, complete with IDs

Methods (by class)

- `espn_conn`: ESPN: returns franchise and division information.
- `flea_conn`: Fleaflicker: returns franchise and division information.
- `mfl_conn`: MFL: returns franchise and division information.

- `sleeper_conn`: Sleeper: retrieves a list of franchise information, including user IDs and co-owner IDs.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 1178049)
  ff_franchises(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2020, league_id = 206154)
  ff_franchises(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_franchises(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_franchises(jml_conn)
}) # end try
```

ff_league

Get League Summary

Description

This function returns a tidy dataframe of common league settings, including details like "1QB" or "2QB/SF", scoring, best ball, team count, IDP etc. This is potentially useful in summarising the features of multiple leagues.

Usage

```
ff_league(conn)
```

```
## S3 method for class 'espn_conn'
```



```
ff_league(conn)

## S3 method for class 'flea_conn'
ff_league(conn)

## S3 method for class 'mfl_conn'
ff_league(conn)

## S3 method for class 'sleeper_conn'
ff_league(conn)
```

Arguments

conn the connection object created by ff_connect()

Value

A one-row summary of each league's main features.

Methods (by class)

- `espn_conn`: ESPN: returns a summary of league features.
- `flea_conn`: Flea: returns a summary of league features.
- `mfl_conn`: MFL: returns a summary of league features.
- `sleeper_conn`: Sleeper: returns a summary of league features.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)

  ff_league(conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(2020, 206154)
  ff_league(conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 22627, season = 2021)
  ff_league(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_league(jml_conn)
}) # end try
```

ff_playerscores *Get Player Scoring History*

Description

This function returns a tidy dataframe of player scores based on league rules.

Unfortunately, Sleeper has deprecated their player stats endpoint from their supported/open API. Please see `ff_scoringhistory()` for an alternative reconstruction.

Usage

```
ff_playerscores(conn, ...)

## S3 method for class 'espn_conn'
ff_playerscores(conn, limit = 1000, ...)

## S3 method for class 'flea_conn'
ff_playerscores(conn, page_limit = NULL, ...)

## S3 method for class 'mfl_conn'
ff_playerscores(conn, season, week, ...)

## S3 method for class 'sleeper_conn'
ff_playerscores(conn, ...)
```

Arguments

conn	the list object created by <code>ff_connect()</code>
...	other arguments (currently unused)
limit	A numeric describing the number of players to return - default 1000
page_limit	A numeric describing the number of pages to return - default NULL returns all available
season	the season of interest - generally only the most recent 2-3 seasons are available
week	a numeric vector (ie 1:17) or one of YTD (year-to-date) or AVG (average to date)

Value

A tibble of historical player scoring

Methods (by class)

- `espn_conn`: ESPN: returns total points for season and average per game, for both current and previous season.
- `flea_conn`: Fleaflicker: returns the season, season average, and standard deviation
- `mfl_conn`: MFL: returns the player fantasy scores for each week (not the actual stats)
- `sleeper_conn`: Sleeper: Deprecated their open API endpoint for player scores

See Also

`ff_scoringhistory`

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)
  ff_playerscores(conn, limit = 5)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(2020, 312861)
  ff_playerscores(conn, page_limit = 2)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  sfb_conn <- mfl_connect(2020, league_id = 65443)
  ff_playerscores(conn = sfb_conn, season = 2019, week = "YTD")
}) # end try
```

ff_rosters

Get League Rosters

Description

This function returns a tidy dataframe of team rosters

Usage

```
ff_rosters(conn, ...)
```

```
## S3 method for class 'espn_conn'
ff_rosters(conn, week = NULL, ...)
```

```
## S3 method for class 'flea_conn'
ff_rosters(conn, ...)

## S3 method for class 'mfl_conn'
ff_rosters(conn, custom_players = deprecated(), week = NULL, ...)

## S3 method for class 'sleeper_conn'
ff_rosters(conn, ...)
```

Arguments

conn	a conn object created by ff_connect()
...	arguments passed to other methods (currently none)
week	a numeric that specifies which week to return
custom_players	" [Deprecated] " - now returns custom players by default

Value

A tidy dataframe of rosters, joined to basic player information and basic franchise information

Methods (by class)

- espn_conn: ESPN: Returns all roster data.
- flea_conn: Fleaflicker: Returns roster data (minus age as of right now)
- mfl_conn: MFL: returns roster data
- sleeper_conn: Sleeper: Returns all roster data.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)
  ff_league(conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  joe_conn <- ff_connect(platform = "fleaflicker", league_id = 312861, season = 2020)

  ff_rosters(joe_conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_rosters(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_rosters(jml_conn)
}) # end try
```

ff_schedule

Get Schedule

Description

This function returns a tidy dataframe with one row for every team for every weekly matchup

Usage

```
ff_schedule(conn, ...)

## S3 method for class 'espn_conn'
ff_schedule(conn, ...)

## S3 method for class 'flea_conn'
ff_schedule(conn, week = 1:17, ...)

## S3 method for class 'mfl_conn'
ff_schedule(conn, ...)

## S3 method for class 'sleeper_conn'
ff_schedule(conn, ...)
```

Arguments

conn	a conn object created by ff_connect()
...	for other platforms
week	a numeric or numeric vector specifying which weeks to pull

Value

A tidy dataframe with one row per game per franchise per week

Methods (by class)

- `espn_conn`: ESPN: returns schedule data, one row for every franchise for every week. Completed games have result data.
- `flea_conn`: Flea: returns schedule data, one row for every franchise for every week. Completed games have result data.

- `mfl_conn`: MFL: returns schedule data, one row for every franchise for every week. Completed games have result data.
- `sleeper_conn`: Sleeper: returns all schedule data

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  espn_conn <- espn_connect(season = 2020, league_id = 899513)
  ff_schedule(espn_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2019, league_id = 206154)
  ff_schedule(conn, week = 2:4)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_schedule(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_schedule(jml_conn)
}) # end try
```

ff_scoring

Get League Scoring Settings

Description

This function returns a dataframe with detailed scoring settings for each league - broken down by event, points, and (if available) position.

Usage

```
ff_scoring(conn)
```

```
## S3 method for class 'espn_conn'
ff_scoring(conn)
```

```
## S3 method for class 'flea_conn'  
ff_scoring(conn)  
  
## S3 method for class 'mfl_conn'  
ff_scoring(conn)  
  
## S3 method for class 'sleeper_conn'  
ff_scoring(conn)  
  
## S3 method for class 'template_conn'  
ff_scoring(conn)
```

Arguments

conn a conn object created by ff_connect()

Value

A tibble of league scoring rules for each position defined.

Methods (by class)

- `espn_conn`: ESPN: returns scoring settings in a flat table, override positions have their own scoring.
- `flea_conn`: Fleaflicker: returns scoring settings in a flat table, one row per position per rule.
- `mfl_conn`: MFL: returns scoring settings in a flat table, one row per position per rule.
- `sleeper_conn`: Sleeper: returns scoring settings in a flat table, one row per position per rule.
- `template_conn`: Template: returns MFL style scoring settings in a flat table, one row per position per rule.

See Also

http://www03.myfantasyleague.com/2020/scoring_rules#rules

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird  
  conn <- espn_connect(season = 2020, league_id = 899513)  
  ff_scoring(conn)  
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird  
  joe_conn <- ff_connect(platform = "fleaflicker", league_id = 312861, season = 2020)  
  ff_scoring(joe_conn)  
}) # end try
```

```

try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_scoring(ssb_conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_scoring(jml_conn)
}) # end try

template_ppr <- ff_template(scoring_type = "ppr")
ff_scoring(template_ppr)

```

ff_scoringhistory *Get League-Specific Scoring History*

Description

(Experimental!) This function reads your league's ff_scoring rules and maps them to nflfastr week-level data. Not all of the scoring rules from your league may have nflfastr equivalents, but most of the common ones are available!

Usage

```

ff_scoringhistory(conn, season, ...)

## S3 method for class 'espn_conn'
ff_scoringhistory(conn, season = 1999:2020, ...)

## S3 method for class 'flea_conn'
ff_scoringhistory(conn, season = 1999:2020, ...)

## S3 method for class 'mfl_conn'
ff_scoringhistory(conn, season = 1999:2020, ...)

## S3 method for class 'sleeper_conn'
ff_scoringhistory(conn, season = 1999:2020, ...)

## S3 method for class 'template_conn'
ff_scoringhistory(conn, season = 1999:2020, ...)

```


Arguments

conn	a conn object created by ff_connect()
season	season a numeric vector of seasons (earliest available year is 1999)
...	other arguments

Value

A tidy dataframe of weekly fantasy scoring data, one row per player per week

Methods (by class)

- `espn_conn`: ESPN: returns scoring history in a flat table, one row per player per week.
- `flea_conn`: Fleaflicker: returns scoring history in a flat table, one row per player per week.
- `mfl_conn`: MFL: returns scoring history in a flat table, one row per player per week.
- `sleeper_conn`: Sleeper: returns scoring history in a flat table, one row per player per week.
- `template_conn`: template: returns scoring history in a flat table, one row per player per week.

See Also

https://www.nflfastr.com/reference/load_player_stats.html

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 899513)
  ff_scoringhistory(conn, season = 2020)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(2020, 312861)
  ff_scoringhistory(conn, season = 2020)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_scoringhistory(ssb_conn, season = 2020)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_scoringhistory(conn, season = 2020)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  template_conn <- ff_template(scoring_type = "sfb11", roster_type = "sfb11")
  ff_scoringhistory(template_conn, season = 2020)
}) # end try
```

ff_standings

Get Standings

Description

This function returns a tidy dataframe of season-long fantasy team stats, including H2H wins as well as points, potential points, and all-play.

Usage

```
ff_standings(conn, ...)

## S3 method for class 'espn_conn'
ff_standings(conn, ...)

## S3 method for class 'flea_conn'
ff_standings(conn, include_allplay = TRUE, include_potentialpoints = TRUE, ...)

## S3 method for class 'mfl_conn'
ff_standings(conn, ...)

## S3 method for class 'sleeper_conn'
ff_standings(conn, ...)
```

Arguments

```
conn          a conn object created by ff_connect()
...           arguments passed to other methods (currently none)
include_allplay TRUE/FALSE - return all-play win pct calculation? defaults to TRUE
include_potentialpoints TRUE/FALSE - return potential points calculation? defaults to TRUE.
```

Value

A tidy dataframe of standings data

Methods (by class)

- `espn_conn`: ESPN: returns standings and points data.
- `flea_conn`: Fleaflicker: returns H2H/points/all-play/best-ball data in a table.
- `mfl_conn`: MFL: returns H2H/points/all-play/best-ball data in a table.
- `sleeper_conn`: Sleeper: returns all standings and points data and manually calculates allplay results.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  espn_conn <- espn_connect(season = 2020, league_id = 899513)
  ff_standings(espn_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2020, league_id = 206154)
  x <- ff_standings(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  ssb_conn <- ff_connect(platform = "mfl", league_id = 54040, season = 2020)
  ff_standings(ssb_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_standings(jml_conn)
}) # end try
```

Description

This function returns a tidy dataframe with one row for every starter (and bench) for every week and their scoring, if available.

Usage

```
ff_starters(conn, ...)

## S3 method for class 'espn_conn'
ff_starters(conn, weeks = 1:17, ...)

## S3 method for class 'flea_conn'
ff_starters(conn, week = 1:17, ...)

## S3 method for class 'mfl_conn'
ff_starters(conn, week = 1:17, season = NULL, ...)

## S3 method for class 'sleeper_conn'
ff_starters(conn, week = 1:17, ...)
```

Arguments

conn	the list object created by ff_connect()
...	other arguments (currently unused)
weeks	which weeks to calculate, a number or numeric vector
week	a numeric or one of YTD (year-to-date) or AVG (average to date)
season	the season of interest - generally only the most recent 2-3 seasons are available

Value

A tidy dataframe with every player for every week, including a flag for whether they were started or not

Methods (by class)

- `espn_conn`: ESPN: returns who was started as well as what they scored.
- `flea_conn`: Fleaflicker: returns who was started as well as what they scored.
- `mfl_conn`: MFL: returns the player fantasy scores for each week (not the actual stats)
- `sleeper_conn`: Sleeper: returns only "who" was started, without any scoring/stats data. Only returns season specified in initial connection object.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 1178049)
  ff_starters(conn, weeks = 1:3)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
```

```
conn <- fleaflicker_connect(season = 2020, league_id = 206154)
ff_starters(conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  dlf_conn <- mfl_connect(2020, league_id = 37920)
  ff_starters(conn = dlf_conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- sleeper_connect(league_id = "522458773317046272", season = 2020)
  ff_starters(jml_conn, week = 3)
}) # end try
```

ff_starter_positions *Get Starting Lineup Settings*

Description

This function returns a tidy dataframe with positional lineup rules.

Usage

```
ff_starter_positions(conn, ...)

## S3 method for class 'espn_conn'
ff_starter_positions(conn, ...)

## S3 method for class 'flea_conn'
ff_starter_positions(conn, ...)

## S3 method for class 'mfl_conn'
ff_starter_positions(conn, ...)

## S3 method for class 'sleeper_conn'
ff_starter_positions(conn, ...)

## S3 method for class 'template_conn'
ff_starter_positions(conn, ...)
```

Arguments

conn	the list object created by ff_connect()
...	other arguments (currently unused)

Value

A tidy dataframe of positional lineup rules, one row per position with minimum and maximum starters as well as total starter calculations.

Methods (by class)

- `espn_conn`: ESPN: returns min/max starters for each main player position
- `flea_conn`: Fleaflicker: returns minimum and maximum starters for each player position.
- `mfl_conn`: MFL: returns minimum and maximum starters for each player position.
- `sleeper_conn`: Sleeper: returns minimum and maximum starters for each player position.
- `template_conn`: Template: returns minimum and maximum starters for each player position.

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- espn_connect(season = 2020, league_id = 1178049)
  ff_starter_positions(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2020, league_id = 206154)
  ff_starter_positions(conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  dlfdp_conn <- mfl_connect(2020, league_id = 33158)
  ff_starter_positions(conn = dlfdp_conn)
}) # end try
```

```
try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- sleeper_connect(league_id = "652718526494253056", season = 2021)
  ff_starter_positions(jml_conn)
}) # end try
```

```
template_conn <- ff_template(roster_type = "idp")
ff_starter_positions(template_conn)
```

ff_template	<i>Default conn objects</i>
-------------	-----------------------------

Description

This function creates a connection to a few league templates, and can be used instead of a real conn object in the following functions: `ff_scoring()`, `ff_scoringhistory()`, `ff_starterpositions()`.

Usage

```
ff_template(
  scoring_type = c("ppr", "half_ppr", "zero_ppr", "sfb11"),
  roster_type = c("1qb", "superflex", "sfb11", "idp")
)
```

Arguments

`scoring_type` One of `c("default", "ppr", "half_ppr", "zero_ppr", "te_prem", "sfb11")`
`roster_type` One of `c("1qb", "superflex", "sfb11", "idp")`

Details

Scoring types defined here are:

- `ppr`: 6 pt passing/rushing/receiving touchdowns, 0.1 for rushing/receiving yards, 1 point per reception, -2 for fumbles/interceptions
- `half_ppr`: same as `ppr` but with 0.5 points per reception
- `zero_ppr`: same as `ppr` but with 0 points per reception
- `te_prem`: same as `ppr` but TEs get 1.5 points per reception
- `sfb11`: scoring as defined here <https://scottfishbowl.com/2021/rules.php>

Roster settings defined here are:

- `1qb`: Starts 1 QB, 2 RB, 3 WR, 1 TE, 2 FLEX
- `superflex`: Starts 1 QB, 2 RB, 3 WR, 1 TE, 2 FLEX, 1 SUPERFLEX
- `sfb11`: Starts 1 QB, 2 RB, 3 WR, 1 TE, 3 FLEX, 1 SUPERFLEX (flex positions can also start a kicker)
- `idp`: Starts same as 1QB but also starts 3 DL, 3 LB, 3 DB, and two IDP FLEX

Value

a connection object that can be used with `ff_scoring()`, `ff_scoringhistory()`, and `ff_starterpositions()`

ff_transactions	<i>Get League Transactions</i>
-----------------	--------------------------------

Description

This function returns a tidy dataframe of transactions - generally one row per player per transaction per team. Each trade is represented twice, once per each team.

Usage

```
ff_transactions(conn, ...)

## S3 method for class 'espn_conn'
ff_transactions(conn, limit = 1000, ...)

## S3 method for class 'flea_conn'
ff_transactions(conn, franchise_id = NULL, ...)

## S3 method for class 'mfl_conn'
ff_transactions(conn, custom_players = deprecated(), ...)

## S3 method for class 'sleeper_conn'
ff_transactions(conn, week = 1:17, ...)
```

Arguments

conn	the list object created by ff_connect()
...	additional args for other methods
limit	number of most recent transactions to return
franchise_id	fleaflicker returns transactions grouped by franchise id, pass a list here to filter
custom_players	[Deprecated] - now returns custom players by default
week	A week filter for transactions - 1 returns all offseason transactions. Default 1:17 returns all transactions.

Value

A tidy dataframe of transaction data

Methods (by class)

- `espn_conn`: ESPN: returns adds, drops, and trades. Requires private/auth-cookie.
- `flea_conn`: Fleaflicker: returns all transactions, including free agents, waivers, and trades.
- `mfl_conn`: MFL: returns all transactions, including auction, free agents, IR, TS, waivers, and trades.
- `sleeper_conn`: Sleeper: returns all transactions, including free agents, waivers, and trades.

Examples

```
## Not run:
# Marked as don't run because this endpoint requires private authentication

conn <- espn_connect(
  season = 2020,
  league_id = 1178049,
  swid = Sys.getenv("TAN_SWID"),
  espn_s2 = Sys.getenv("TAN_ESPN_S2")
)
ff_transactions(conn)

## End(Not run)

try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(season = 2020, league_id = 312861)
  ff_transactions(conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  dlf_conn <- mfl_connect(2019, league_id = 37920)
  ff_transactions(dlf_conn)
}) # end try

try({ # try only shown here because sometimes CRAN checks are weird
  jml_conn <- ff_connect(platform = "sleeper", league_id = "522458773317046272", season = 2020)
  ff_transactions(jml_conn, week = 1:2)
}) # end try
```

ff_userleagues

Get User Leagues

Description

This function returns a tidy dataframe with one row for every league a user is in. This requires authentication cookies for MFL usage.

Usage

```
ff_userleagues(conn, ...)

## S3 method for class 'espn_conn'
ff_userleagues(conn = NULL, ...)
```

```
## S3 method for class 'flea_conn'
ff_userleagues(conn = NULL, user_email = NULL, season = NULL, ...)

## S3 method for class 'mfl_conn'
ff_userleagues(conn, season = NULL, ...)

## S3 method for class 'sleeper_conn'
ff_userleagues(conn = NULL, user_name = NULL, season = NULL, ...)
```

Arguments

conn	a connection object created by ff_connect()
...	arguments that may be passed to other methods (for method consistency)
user_email	the username to look up - defaults to user created in conn if available
season	the season to look up leagues for
user_name	the username to look up - defaults to user created in conn if available

Value

A tidy dataframe with one row for every league a user is in

Methods (by class)

- `espn_conn`: ESPN: does not support a lookup of user leagues by email or user ID at this time.
- `flea_conn`: flea: returns a listing of leagues for a given `user_email`
- `mfl_conn`: MFL: With username/password, it will return a list of user leagues.
- `sleeper_conn`: Sleeper: returns a listing of leagues for a given `user_id` or `user_name`

See Also

[flea_flicker_userleagues\(\)](#) to call this function for flea leagues without first creating a connection object.

[sleeper_userleagues\(\)](#) to call this function for Sleeper leagues without first creating a connection object.

flea_flicker_connect *Connect to FleaFlicker League*

Description

This function creates a connection object which stores parameters and a user ID if available.

Usage

```
flea flicker_connect(
  season = NULL,
  league_id = NULL,
  user_email = NULL,
  user_agent = NULL,
  rate_limit = TRUE,
  rate_limit_number = NULL,
  rate_limit_seconds = NULL,
  ...
)
```

Arguments

season	Season to access on Flea flicker - if missing, will guess based on system date (current year if March or later, otherwise previous year)
league_id	League ID
user_email	Optional - attempts to get user's user ID by email
user_agent	User agent to self-identify (optional)
rate_limit	TRUE by default - turn off rate limiting with FALSE
rate_limit_number	number of calls per rate_limit_seconds, suggested is under 1000 calls per 60 seconds
rate_limit_seconds	number of seconds as denominator for rate_limit
...	other arguments (for other methods, for R compat)

Value

a list that stores Flea flicker connection objects

```
flea flicker_getendpoint
```

GET any Flea flicker endpoint

Description

The endpoint names and HTTP parameters (i.e. argument names) are CASE SENSITIVE and should be passed in exactly as displayed on the Flea flicker API reference page.

Usage

```
flea flicker_getendpoint(endpoint, ...)
```

Arguments

endpoint	a string defining which endpoint to return from the API
...	Arguments which will be passed as "argumentname = argument" in an HTTP query parameter

Details

Check out the vignette for more details and example usage.

Value

A list object containing the query, response, and parsed content.

See Also

<https://www.fleaflicker.com/api-docs/index.html>
vignette("fleaflicker_getendpoint")

fleaflicker_players *Fleaflicker players library*

Description

A cached table of Fleaflicker NFL players. Will store in memory for each session! (via memoise in zzz.R)

Usage

```
fleaflicker_players(conn, page_limit = NULL)
```

Arguments

conn	a conn object created by ff_connect()
page_limit	A number limiting the number of players to return, or NULL (default) returns all

Value

a dataframe containing all ~7000+ players in the Fleaflicker database

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  conn <- fleaflicker_connect(2020, 312861)
  player_list <- fleaflicker_players(conn, page_limit = 2)
}) # end try
```

flea flicker_userleagues
Flea flicker - Get User Leagues

Description

This function returns the leagues that a specific user is in. This variant can be used without first creating a connection object.

Usage

```
flea flicker_userleagues(user_email, season = NULL)
```

Arguments

user_email	the username to look up
season	the season to return leagues from - defaults to current year based on heuristics

Value

a dataframe of leagues for the specified user

See Also

[ff_userleagues\(\)](#)

mfl_connect *Connect to MFL League*

Description

This function creates a connection object which stores parameters and gets a login-cookie if available

Usage

```
mfl_connect(  
  season = NULL,  
  league_id = NULL,  
  APIKEY = NULL,  
  user_name = NULL,  
  password = NULL,  
  user_agent = NULL,  
  rate_limit = TRUE,  
  rate_limit_number = NULL,  
  rate_limit_seconds = NULL,  
  ...  
)
```

Arguments

season	Season to access on MFL - if missing, will guess based on system date (current year if March or later, otherwise previous year)
league_id	league_id Numeric ID parameter for each league, typically found in the URL
APIKEY	APIKEY - optional - allows access to private leagues. Key is unique for each league and accessible from Developer's API page (currently assuming one league at a time)
user_name	MFL user_name - optional - when supplied in conjunction with a password, will attempt to retrieve authentication token
password	MFL password - optional - when supplied in conjunction with user_name, will attempt to retrieve authentication token
user_agent	A string representing the user agent to be used to identify calls - may find improved rate_limits if verified token
rate_limit	TRUE by default, pass FALSE to turn off rate limiting
rate_limit_number	number of calls per rate_limit_seconds, suggested is 60 calls per 60 seconds
rate_limit_seconds	number of seconds as denominator for rate_limit
...	silently swallows up unused arguments

Value

a connection object to be used with ff_* functions

Examples

```
mfl_connect(season = 2020, league_id = 54040)
mfl_connect(season = 2019, league_id = 54040, rate_limit = FALSE)
```

mfl_getendpoint	<i>GET any MFL endpoint</i>
-----------------	-----------------------------

Description

Create a GET request to any MFL export endpoint.

Usage

```
mfl_getendpoint(conn, endpoint, ...)
```

Arguments

conn	the list object created by <code>mfl_connect()</code>
endpoint	a string defining which endpoint to return from the API
...	Arguments which will be passed as "argumentname = argument" in an HTTP query parameter

Details

This function will read the connection object and automatically pass in the rate-limiting, league ID (L), authentication cookie, and/or API key (APIKEY) if configured in the connection object.

The endpoint names and HTTP parameters (i.e. argument names) are CASE SENSITIVE and should be passed in exactly as displayed on the MFL API reference page.

Check out the vignette for more details and example usage.

Value

A list object containing the query, response, and parsed content.

See Also

https://api.myfantasyleague.com/2020/api_info?STATE=details

`vignette("mfl_getendpoint")`

mfl_players

MFL players library

Description

A cached table of MFL players. Will store in memory for each session! (via memoise in `zzz.R`)

Usage

```
mfl_players(conn = NULL)
```

Arguments

conn	optionally, pass in a conn object generated by <code>ff_connect</code> to receive league-specific custom players
------	--

Value

a dataframe containing all ~2000+ players in the MFL database

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  player_list <- nfl_players()
  dplyr::sample_n(player_list, 5)
}) # end try
```

nflfastr_rovers	<i>Import nflfastr roster data</i>
-----------------	------------------------------------

Description

Fetches a copy of roster data from nflfastr's data repository. The same input/output as nflfastr's `fast_scraper_roster` function.

Usage

```
nflfastr_rovers(seasons)
```

Arguments

seasons	A numeric vector of seasons, earliest of which is 1999. TRUE returns all seasons, NULL returns latest season.
---------	---

Details

If you have any issues with the output of this data, please open an issue in the nflfastr repository.

Value

Data frame where each individual row represents a player in the roster of the given team and season

See Also

<https://nflreadr.nflverse.com>

Examples

```
try( # try only shown here because sometimes CRAN checks are weird
  nflfastr_rovers(seasons = 2019:2020)
)
```

 nflfastr_stat_mapping *Mappings for nflfastr to fantasy platform scoring*

Description

A small helper dataframe for connecting nflfastr to specific fantasy platform rules.

Usage

```
nflfastr_stat_mapping
```

Format

A data frame with ~85 rows and 3 variables:

nflfastr_event the column name of the statistic in the nflfastr_weekly dataset

platform specific platform that this mapping applies to

ff_event name of the statistic for that platform

 nflfastr_weekly *Import latest nflfastr weekly stats*

Description

Fetches a copy of the latest week-level stats from nflfastr's data repository, via the [nflreadr](#) package.

Usage

```
nflfastr_weekly(seasons = TRUE, type = c("offense", "kicking"))
```

Arguments

seasons The seasons to return, TRUE returns all data available.

type One of "offense" or "kicking"

Details

The goal of this data is to replicate the NFL's official weekly stats, which can diverge a bit from what fantasy data feeds display.

If you have any issues with the output of this data, please open an issue in the nflfastr repository.

Value

Weekly stats for all passers, rushers and receivers in the nflverse play-by-play data from the 1999 season to the most recent season

See Also

<https://nflreadr.nflverse.com>

Examples

```
try( # try only shown here because sometimes CRAN checks are weird
  nflfastr_weekly()
)
```

sleeper_connect	<i>Connect to Sleeper League</i>
-----------------	----------------------------------

Description

This function creates a connection object which stores parameters and a user ID if available.

Usage

```
sleeper_connect(
  season = NULL,
  league_id = NULL,
  user_name = NULL,
  user_agent = NULL,
  rate_limit = TRUE,
  rate_limit_number = NULL,
  rate_limit_seconds = NULL,
  ...
)
```

Arguments

season	Season to access on Sleeper - if missing, will guess based on system date (current year if March or later, otherwise previous year)
league_id	League ID (currently assuming one league at a time)
user_name	Sleeper user_name - optional - attempts to get user's user ID
user_agent	User agent to self-identify (optional)
rate_limit	TRUE by default - turn off rate limiting with FALSE
rate_limit_number	number of calls per rate_limit_seconds, suggested is under 1000 calls per 60 seconds
rate_limit_seconds	number of seconds as denominator for rate_limit
...	other arguments (for other methods)

Value

a list that stores Sleeper connection objects

sleeper_getendpoint *GET any Sleeper endpoint*

Description

The endpoint names and HTTP parameters (i.e. argument names) are CASE SENSITIVE and should be passed in exactly as displayed on the Sleeper API reference page.

Usage

```
sleeper_getendpoint(endpoint, ...)
```

Arguments

endpoint	a string defining which endpoint to return from the API
...	Arguments which will be passed as "argumentname = argument" in an HTTP query parameter

Details

Check out the vignette for more details and example usage.

Value

A list object containing the query, response, and parsed content.

See Also

<https://docs.sleeper.app>

vignette("sleeper_getendpoint")

sleeper_players *Sleeper players library*

Description

A cached table of Sleeper NFL players. Will store in memory for each session! (via memoise in *zzz.R*)

Usage

```
sleeper_players()
```

Value

a dataframe containing all ~7000+ players in the Sleeper database

Examples

```
try({ # try only shown here because sometimes CRAN checks are weird
  x <- sleeper_players()
  dplyr::sample_n(x, 5)
}) # end try
```

sleeper_userleagues *Sleeper - Get User Leagues*

Description

This function returns the leagues that a specific user is in. This variant can be used without first creating a connection object.

Usage

```
sleeper_userleagues(user_name, season = NULL)
```

Arguments

user_name the username to look up
season the season to return leagues from - defaults to current year based on heuristics

Value

a dataframe of leagues for the specified user

See Also

[ff_userleagues\(\)](#)

%>%

Pipe operator

Description

See [magrittr::%>%](#) for details.

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