

Package ‘nflreadr’

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Title Download 'nflverse' Data

Version 1.3.0

Description A minimal package for downloading data from 'GitHub' repositories of the 'nflverse' project.

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URL <https://nflreadr.nflverse.com>,
<https://github.com/nflverse/nflreadr>

BugReports <https://github.com/nflverse/nflreadr/issues>

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<code>.clear_cache</code>	<i>Clear function cache</i>
---------------------------	-----------------------------

Description

This function clears the memoised cache of all functions memoised by `nflreadr`.

Usage

```
.clear_cache()
```

Value

A success message after clearing the cache.

Examples

```
.clear_cache()
```

clean_homeaway	<i>Clean Home/Away in dataframes into Team/Opponent dataframes</i>
----------------	--

Description

This function converts dataframes with "home_" and "away_" prefixed columns to "team_" and "opponent_", and doubles the rows. This makes sure that there's one row for each team (as opposed to one row for each game).

Usage

```
clean_homeaway(dataframe, invert = NULL)
```

Arguments

dataframe	dataframe
invert	a character vector of columns that gets inverted when referring to the away team (e.g. home spread = 1 gets converted to away_spread = -1)

Value

a dataframe with one row per team (twice as long as the input dataframe)

Examples

```
# creating a small example dataframe!
cols <- c("season", "week", "home_team", "home_score",
         "away_team", "away_score", "result", "spread_line")

x <- as.data.frame(load_schedules(2020))
x <- utils::head(x[cols])

# how the data looks like
x

clean_homeaway(x, invert = c("result", "spread_line"))
```

clean_player_names	<i>Create Player Merge 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 `ffscrapr::dp_name_mapping` to do common name substitutions, such as Mitch Trubisky to Mitchell Trubisky

Usage

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

Arguments

<code>player_name</code>	a character vector of player names
<code>lowercase</code>	defaults to FALSE - if TRUE, converts to lowercase
<code>convert_lastfirst</code>	defaults to TRUE - converts names from "Last, First" to "First Last"
<code>use_name_database</code>	uses internal name database to do common substitutions (Mitchell Trubisky to Mitch Trubisky etc)

Details

Equivalent to the operation done by `ffscrapr::dp_clean_names()` and uses the same player name database.

Value

a character vector of cleaned names

Examples

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

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

clean_team_abbrs *Standardize NFL Team Abbreviations*

Description

This function standardizes NFL team abbreviations to nflverse defaults. This helps for joins and plotting, especially with the new nflplotR package!

Usage

```
clean_team_abbrs(abbr, current_location = TRUE, keep_non_matches = TRUE)
```

Arguments

abbr a character vector of abbreviations

current_location If TRUE (the default), the abbreviation of the most recent team location will be used.

keep_non_matches If TRUE (the default) an element of abbr that can't be matched to any of the internal mapping vectors will be kept as is. Otherwise it will be replaced with NA.

Value

A character vector with the length of abbr and cleaned team abbreviations if they are included in [team_abbr_mapping](#) or [team_abbr_mapping_norelocate](#) (depending on the value of current_location). Non matches may be replaced with NA (depending on the value of keep_non_matches).

Examples

```
x <- c("PIE", "LAR", "PIT", "CRD", "OAK", "SL")
# use current location and keep non matches
clean_team_abbrs(x)

# keep old location and replace non matches
clean_team_abbrs(x, current_location = FALSE, keep_non_matches = FALSE)
```

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

Description

This is a thin wrapper on `data.table::fread`, but memoised & cached for twenty four hours.

Usage

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

Arguments

... Arguments passed on to `data.table::fread`

input A single character string. The value is inspected and deferred to either `file=` (if no `\n` present), `text=` (if at least one `\n` is present) or `cmd=` (if no `\n` is present, at least one space is present, and it isn't a file name). Exactly one of `input=`, `file=`, `text=`, or `cmd=` should be used in the same call.

file File name in working directory, path to file (passed through `path.expand` for convenience), or a URL starting `http://`, `file://`, etc. Compressed files with extension `'.gz'` and `'.bz2'` are supported if the `R.utils` package is installed.

text The input data itself as a character vector of one or more lines, for example as returned by `readLines()`.

cmd A shell command that pre-processes the file; e.g. `fread(cmd=paste("grep", word, "filename"))`. See Details.

sep The separator between columns. Defaults to the character in the set `[\t|;:]` that separates the sample of rows into the most number of lines with the same number of fields. Use `NULL` or `""` to specify no separator; i.e. each line a single character column like `base::readLines` does.

sep2 The separator *within* columns. A list column will be returned where each cell is a vector of values. This is much faster using less working memory than `strsplit` afterwards or similar techniques. For each column `sep2` can be different and is the first character in the same set above `[\t|;:]`, other than `sep`, that exists inside each field outside quoted regions in the sample. NB: `sep2` is not yet implemented.

nrows The maximum number of rows to read. Unlike `read.table`, you do not need to set this to an estimate of the number of rows in the file for better speed because that is already automatically determined by `fread` almost instantly using the large sample of lines. `nrows=0` returns the column names and typed empty columns determined by the large sample; useful for a dry run of a large file or to quickly check format consistency of a set of files before starting to read any of them.

header Does the first data line contain column names? Defaults according to whether every non-empty field on the first data line is type character. If so, or `TRUE` is supplied, any empty column names are given a default name.

- `na.strings` A character vector of strings which are to be interpreted as NA values. By default, ",," for columns of all types, including type character is read as NA for consistency. ",," is unambiguous and read as an empty string. To read ,NA, as NA, set `na.strings="NA"`. To read , , as blank string "", set `na.strings=NULL`. When they occur in the file, the strings in `na.strings` should not appear quoted since that is how the string literal , "NA", is distinguished from ,NA,, for example, when `na.strings="NA"`.
- `stringsAsFactors` Convert all character columns to factors?
- `verbose` Be chatty and report timings?
- `skip` If 0 (default) start on the first line and from there finds the first row with a consistent number of columns. This automatically avoids irregular header information before the column names row. `skip>0` means ignore the first `skip` rows manually. `skip="string"` searches for "string" in the file (e.g. a substring of the column names row) and starts on that line (inspired by `read.xls` in package `gdata`).
- `select` A vector of column names or numbers to keep, drop the rest. `select` may specify types too in the same way as `colClasses`; i.e., a vector of `colname=type` pairs, or a list of `type=col(s)` pairs. In all forms of `select`, the order that the columns are specified determines the order of the columns in the result.
- `drop` Vector of column names or numbers to drop, keep the rest.
- `colClasses` As in `utils::read.csv`; i.e., an unnamed vector of types corresponding to the columns in the file, or a named vector specifying types for a subset of the columns by name. The default, `NULL` means types are inferred from the data in the file. Further, `data.table` supports a named list of vectors of column names *or numbers* where the list names are the class names; see examples. The list form makes it easier to set a batch of columns to be a particular class. When column numbers are used in the list form, they refer to the column number in the file not the column number after `select` or `drop` has been applied. If type coercion results in an error, introduces NAs, or would result in loss of accuracy, the coercion attempt is aborted for that column with warning and the column's type is left unchanged. If you really desire data loss (e.g. reading 3.14 as integer) you have to truncate such columns afterwards yourself explicitly so that this is clear to future readers of your code.
- `integer64` "integer64" (default) reads columns detected as containing integers larger than 2^{31} as type `bit64::integer64`. Alternatively, "double"|"numeric" reads as `utils::read.csv` does; i.e., possibly with loss of precision and if so silently. Or, "character".
- `dec` The decimal separator as in `utils::read.csv`. If not "." (default) then usually ",",. See details.
- `col.names` A vector of optional names for the variables (columns). The default is to use the header column if present or detected, or if not "V" followed by the column number. This is applied after `check.names` and before `key` and `index`.
- `check.names` default is `FALSE`. If `TRUE` then the names of the variables in the `data.table` are checked to ensure that they are syntactically valid variable

- names. If necessary they are adjusted (by `make.names`) so that they are, and also to ensure that there are no duplicates.
- encoding default is "unknown". Other possible options are "UTF-8" and "Latin-1".
Note: it is not used to re-encode the input, rather enables handling of encoded strings in their native encoding.
- quote By default ("\""), if a field starts with a double quote, `fread` handles embedded quotes robustly as explained under `Details`. If it fails, then another attempt is made to read the field *as is*, i.e., as if quotes are disabled. By setting `quote=""`, the field is always read as if quotes are disabled. It is not expected to ever need to pass anything other than "\" to `quote`; i.e., to turn it off.
- strip.white default is TRUE. Strips leading and trailing whitespaces of unquoted fields. If FALSE, only header trailing spaces are removed.
- fill logical (default is FALSE). If TRUE then in case the rows have unequal length, blank fields are implicitly filled.
- blank.lines.skip logical, default is FALSE. If TRUE blank lines in the input are ignored.
- key Character vector of one or more column names which is passed to `setkey`. It may be a single comma separated string such as `key="x,y,z"`, or a vector of names such as `key=c("x","y","z")`. Only valid when argument `data.table=TRUE`. Where applicable, this should refer to column names given in `col.names`.
- index Character vector or list of character vectors of one or more column names which is passed to `setindexv`. As with `key`, comma-separated notation like `index="x,y,z"` is accepted for convenience. Only valid when argument `data.table=TRUE`. Where applicable, this should refer to column names given in `col.names`.
- showProgress TRUE displays progress on the console if the ETA is greater than 3 seconds. It is produced in `fread`'s C code where the very nice (but R level) `txtProgressBar` and `tkProgressBar` are not easily available.
- data.table TRUE returns a `data.table`. FALSE returns a `data.frame`. The default for this argument can be changed with `options(datatable.fread.datatable=FALSE)`.
- nThread The number of threads to use. Experiment to see what works best for your data on your hardware.
- logical01 If TRUE a column containing only 0s and 1s will be read as logical, otherwise as integer.
- keepLeadingZeros If TRUE a column containing numeric data with leading zeros will be read as character, otherwise leading zeros will be removed and converted to numeric.
- yaml If TRUE, `fread` will attempt to parse (using `yaml.load`) the top of the input as YAML, and further to glean parameters relevant to improving the performance of `fread` on the data itself. The entire YAML section is returned as parsed into a list in the `yaml_metadata` attribute. See `Details`.
- autostart Deprecated and ignored with warning. Please use `skip` instead.
- tmpdir Directory to use as the `tmpdir` argument for any `tempfile` calls, e.g. when the input is a URL or a shell command. The default is `tempdir()`

which can be controlled by setting TMPDIR before starting the R session; see `base::tempdir`.

`tz` Relevant to datetime values which have no Z or UTC-offset at the end, i.e. *unmarked* datetime, as written by `utils::write.csv`. The default `tz="UTC"` reads unmarked datetime as UTC POSIXct efficiently. `tz=""` reads unmarked datetime as type character (slowly) so that `as.POSIXct` can interpret (slowly) the character datetimes in local timezone; e.g. by using `"POSIXct"` in `colClasses=`. Note that `fwrite()` by default writes datetime in UTC including the final Z and therefore `fwrite`'s output will be read by `fread` consistently and quickly without needing to use `tz=` or `colClasses=`. If the `TZ` environment variable is set to `"UTC"` (or `"` on non-Windows where unset vs `"` is significant) then the R session's timezone is already UTC and `tz=""` will result in unmarked datetimes being read as UTC POSIXct. For more information, please see the news items from v1.13.0 and v1.14.0.

Value

a dataframe as created by `data.table::fread()`

Examples

```
try({ # prevents cran errors
  csv_from_url("https://github.com/nflverse/nfldata/raw/master/data/games.csv")
})
```

dictionary_combine *Data Dictionary: Combine*

Description

A dataframe containing the data dictionary for `load_combine()`

Usage

```
dictionary_combine
```

Format

An object of class `data.frame` with 18 rows and 3 columns.

See Also

`vignette("Data Dictionary - Combine")`

https://nflreadr.nflverse.com/articles/dictionary_combine.html

dictionary_contracts *Data Dictionary: Contracts*

Description

A dataframe containing the data dictionary for `load_contracts()`

Usage

```
dictionary_contracts
```

Format

An object of class `data.frame` with 15 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Contracts")
```

https://nflreadr.nflverse.com/articles/dictionary_contracts.html

dictionary_depth_charts
Data Dictionary: Depth Charts

Description

A dataframe containing the data dictionary for `load_depth_charts()`

Usage

```
dictionary_depth_charts
```

Format

An object of class `data.frame` with 13 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Depth Charts")
```

https://nflreadr.nflverse.com/articles/dictionary_depth_charts.html

dictionary_draft_picks

Data Dictionary: Draft Picks

Description

A dataframe containing the data dictionary for `load_draft_picks()`

Usage

```
dictionary_draft_picks
```

Format

An object of class `data.frame` with 36 rows and 3 columns.

See Also

`vignette("Data Dictionary - Draft Picks")`

https://nflreadr.nflverse.com/articles/dictionary_draft_picks.html

dictionary_espn_qbr

Data Dictionary: ESPN QBR

Description

A dataframe containing the data dictionary for `load_espn_qbr()`

Usage

```
dictionary_espn_qbr
```

Format

An object of class `data.frame` with 23 rows and 3 columns.

See Also

`vignette("Data Dictionary - ESPN QBR")`

https://nflreadr.nflverse.com/articles/dictionary_espn_qbr.html

`dictionary_ff_opportunity`*Data Dictionary: Expected Fantasy Points*

Description

A dataframe containing the data dictionary for `load_ff_opportunity()`

Usage

```
dictionary_ff_opportunity
```

Format

An object of class `data.frame` with 218 rows and 4 columns.

See Also

```
vignette("Data Dictionary - Expected Fantasy Points")
```

https://nflreadr.nflverse.com/articles/dictionary_ff_opportunity.html

`dictionary_ff_playerids`*Data Dictionary: Fantasy Player IDs*

Description

A dataframe containing the data dictionary for `load_ff_playerids()`

Usage

```
dictionary_ff_playerids
```

Format

An object of class `data.frame` with 35 rows and 3 columns.

See Also

```
vignette("Data Dictionary - FF Player IDs")
```

https://nflreadr.nflverse.com/articles/dictionary_ff_playerids.html

dictionary_ff_rankings

Data Dictionary: Fantasy Football Rankings

Description

A dataframe containing the data dictionary for `load_ff_rankings()`

Usage

```
dictionary_ff_rankings
```

Format

An object of class `data.frame` with 25 rows and 3 columns.

See Also

```
vignette("Data Dictionary - FF Rankings")
```

https://nflreadr.nflverse.com/articles/dictionary_ff_rankings.html

dictionary_injuries

Data Dictionary: Injuries

Description

A dataframe containing the data dictionary for `load_injuries()`

Usage

```
dictionary_injuries
```

Format

An object of class `data.frame` with 16 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Injuries")
```

https://nflreadr.nflverse.com/articles/dictionary_injuries.html

`dictionary_nextgen_stats`*Data Dictionary: Next Gen Stats*

Description

A dataframe containing the data dictionary for `load_nextgen_stats()`

Usage

```
dictionary_nextgen_stats
```

Format

An object of class `data.frame` with 51 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Next Gen Stats")
```

https://nflreadr.nflverse.com/articles/dictionary_nextgen_stats.html

`dictionary_pbp`*Data Dictionary: Play by Play*

Description

A dataframe containing the data dictionary for `load_pbp()`

Usage

```
dictionary_pbp
```

Format

An object of class `data.frame` with 372 rows and 3 columns.

See Also

```
vignette("Data Dictionary - PBP")
```

https://nflreadr.nflverse.com/articles/dictionary_pbp.html

dictionary_pfr_passing

Data Dictionary: PFR Passing

Description

A dataframe containing the data dictionary for `load_pfr_passing()`

Usage

```
dictionary_pfr_passing
```

Format

An object of class `data.frame` with 28 rows and 3 columns.

See Also

https://nflreadr.nflverse.com/articles/dictionary_pfr_passing.html

`vignette("Data Dictionary - PFR Passing")`

dictionary_player_stats

Data Dictionary: Player Stats

Description

A dataframe containing the data dictionary for `load_player_stats()`

Usage

```
dictionary_player_stats
```

Format

An object of class `data.frame` with 48 rows and 2 columns.

See Also

`vignette("Data Dictionary - Player Stats")`

https://nflreadr.nflverse.com/articles/dictionary_player_stats.html

dictionary_rosters *Data Dictionary: Rosters*

Description

A dataframe containing the data dictionary for `load_rosters()`

Usage

```
dictionary_rosters
```

Format

An object of class `data.frame` with 25 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Rosters")
```

https://nflreadr.nflverse.com/articles/dictionary_rosters.html

dictionary_schedules *Data Dictionary: Schedules*

Description

A dataframe containing the data dictionary for `load_schedules()`

Usage

```
dictionary_schedules
```

Format

An object of class `data.frame` with 45 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Schedules")
```

https://nflreadr.nflverse.com/articles/dictionary_schedules.html

dictionary_snap_counts

Data Dictionary: Snap Counts

Description

A dataframe containing the data dictionary for `load_snap_counts()`

Usage

```
dictionary_snap_counts
```

Format

An object of class `data.frame` with 16 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Snap Counts")
```

https://nflreadr.nflverse.com/articles/dictionary_snap_counts.html

dictionary_trades

Data Dictionary: Trades

Description

A dataframe containing the data dictionary for `load_trades()`

Usage

```
dictionary_trades
```

Format

An object of class `data.frame` with 11 rows and 3 columns.

See Also

```
vignette("Data Dictionary - Trades")
```

https://nflreadr.nflverse.com/articles/dictionary_trades.html

get_current_week	<i>Get Current Week</i>
------------------	-------------------------

Description

A helper function that returns the upcoming NFL regular season week based on either the nflverse schedules file (as found in `load_schedules()`) or some date-based heuristics (number of weeks since the first Monday of September)

Usage

```
get_current_week(use_date = FALSE)
```

Arguments

use_date	a logical to determine whether to use date-based heuristics to determine current week, default FALSE (i.e. uses schedule file)
----------	--

Value

current nfl regular season week as a numeric

See Also

Other Date utils: [most_recent_season\(\)](#)

Examples

```
{  
  
  try({ # schedules file as per default requires online access  
    get_current_week()  
  })  
  
  # using the date method works offline  
  get_current_week(use_date = TRUE)  
}
```

load_combine	<i>Load Combine Data from PFR</i>
--------------	-----------------------------------

Description

Loads combine data since 2000 courtesy of PFR.

Usage

```
load_combine(  
  seasons = TRUE,  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	a numeric vector of seasons to return, default TRUE returns all available data
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with <code>options(nflreadr.prefer)</code>

Value

A tibble of NFL combine data provided by Pro Football Reference.

See Also

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>
https://nflreadr.nflverse.com/articles/dictionary_combine.html for a web version of the dictionary

[dictionary_combine](#) for the data dictionary as bundled within the package

Examples

```
try({ # prevents cran errors  
  load_combine()  
})
```

load_contracts	<i>Load Historical Player Contracts from OverTheCap.com</i>
----------------	---

Description

Loads player contracts from OverTheCap.com

Usage

```
load_contracts(file_type = getOption("nflreadr.prefer", default = "rds"))
```

Arguments

`file_type` One of "rds", "qs", "csv", or "parquet". Can also be set globally with `options(nflreadr.prefer)`

Value

A tibble of active and non-active NFL player contracts.

See Also

<https://overthecap.com/contract-history> for a web version of the data

https://nflreadr.nflverse.com/articles/dictionary_contracts.html for a web version of the dictionary

[dictionary_contracts](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/rotc>

Examples

```
try({ # prevents cran errors
  load_contracts()
})
```

load_depth_charts *Load Weekly Depth Charts*

Description

Loads depth charts for each NFL team for each week back to 2001.

Usage

```
load_depth_charts(  
  seasons = most_recent_season(),  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	a numeric vector specifying what seasons to return, if TRUE returns all available data. Defaults to latest season.
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble of week-level depth charts for each team.

See Also

https://nflreadr.nflverse.com/articles/dictionary_depth_charts.html for a web version of the dictionary

[dictionary_depth_charts](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors  
  load_depth_charts(2020)  
})
```

load_draft_picks	<i>Load Draft Picks from PFR</i>
------------------	----------------------------------

Description

Loads every draft pick since 1980 courtesy of PFR.

Usage

```
load_draft_picks(  
  seasons = TRUE,  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	a numeric vector of seasons to return, default TRUE returns all available data
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with <code>options(nflreadr.prefer)</code>

Value

A tibble of NFL draft picks provided by Pro Football Reference.

See Also

https://nflreadr.nflverse.com/articles/dictionary_draft_picks.html for the web data dictionary

[dictionary_draft_picks](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors  
  load_draft_picks()  
})
```

load_espn_qbr	<i>Load ESPN's QBR</i>
---------------	------------------------

Description

Load ESPN's QBR

Usage

```
load_espn_qbr(  
  league = c("nfl", "college"),  
  seasons = most_recent_season(),  
  summary_type = c("season", "weekly")  
)
```

Arguments

league	One of "nfl" or "college", defaults to "nfl"
seasons	a numeric vector of seasons to return, data available since 2006. Defaults to latest season available. TRUE will select all seasons.
summary_type	One of "season" or "weekly", defaults to season

Value

a tibble of season-level injury report data.

See Also

https://nflreadr.nflverse.com/articles/dictionary_espn_qbr.html for a web version of the dictionary

[dictionary_espn_qbr](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/espnscrapeR-data>

Examples

```
load_espn_qbr("nfl", 2020)
```

load_ff_opportunity *Load Expected Fantasy Points*

Description

This function downloads precomputed expected points data from [ffopportunity](#) automated releases.

Usage

```
load_ff_opportunity(  
  seasons = most_recent_season(),  
  stat_type = c("weekly", "pbp_pass", "pbp_rush"),  
  model_version = c("latest", "v1.0.0")  
)
```

Arguments

seasons a numeric vector of seasons to return, defaults to most recent season. If set to TRUE, returns all available data.

stat_type one of "weekly", "pbp_pass", "pbp_rush"

model_version one of "latest" or "v1.0.0"

Value

Precomputed expected fantasy points data from the [ffopportunity](#) automated releases.

See Also

<https://ffopportunity.ffverse.com> for more on the package, data, and modelling

https://nflreadr.nflverse.com/articles/dictionary_ff_opportunity.html for the web data dictionary

[dictionary_ff_opportunity](#) for the data dictionary bundled as a package data frame

Issues with this data should be filed here: <https://github.com/ffverse/ffopportunity>

Examples

```
try({ # prevents cran errors  
  load_ff_opportunity()  
  load_ff_opportunity(seasons = 2021, stat_type = "pbp_pass", model_version = "v1.0.0")  
})
```

load_ff_playerids *Load Fantasy Player IDs*

Description

Accesses DynastyProcess.com's database of fantasy football player IDs, which help connect nfl-verse to various other platforms and IDs.

Usage

```
load_ff_playerids()
```

Value

a dataframe of player IDs

See Also

https://nflreadr.nflverse.com/articles/dictionary_ff_playerids.html for the web data dictionary

Issues with this data should be filed here: <https://github.com/dynastyprocess/data>

Examples

```
try({ # prevents cran errors
load_ff_playerids()
})
```

load_ff_rankings *Load Latest FantasyPros Rankings*

Description

Accesses DynastyProcess.com's repository of the latest FP expert consensus rankings - updated on a weekly basis.

Usage

```
load_ff_rankings(type = c("draft", "week", "all"))
```

Arguments

type one of "draft" (preseason), "week" (this week, inseason), or "all" (full archive)

Value

a dataframe of expert consensus rankings

See Also

https://nflreadr.nflverse.com/articles/dictionary_ff_rankings.html for the web data dictionary

<https://www.fantasypros.com> for the source of data

Issues with this data should be filed here: <https://github.com/dynastyprocess/data>

Examples

```
try({ # prevents cran errors
load_ff_rankings()
})
```

load_from_url	<i>Load any rds/csv/csv.gz/parquet/qs file from a remote URL</i>
---------------	--

Description

Load any rds/csv/csv.gz/parquet/qs file from a remote URL

Usage

```
load_from_url(url, ..., seasons = TRUE, nflverse = FALSE)
```

Arguments

`url` a vector of URLs to load into memory. If more than one URL provided, will row-bind them.

`...` named arguments that will be added as attributes to the data, e.g. `nflverse_type = "pbp"`

`seasons` a numeric vector of years that will be used to filter the dataframe's season column. If TRUE (default), does not filter.

`nflverse` TRUE to add `nflverse_data` classing and attributes.

Value

a dataframe, possibly of type `nflverse_data`

Examples

```
try({ # prevents cran errors
  urls <- c("https://github.com/nflverse/nflverse-data/releases/download/rosters/roster_2020.csv",
           "https://github.com/nflverse/nflverse-data/releases/download/rosters/roster_2021.csv")
  load_from_url(urls, nflverse = TRUE, nflverse_type = "rosters for 2020 & 2021")
})
```

load_injuries

*Load Injury Reports***Description**

Data collected from an API for weekly injury report data.

Usage

```
load_injuries(
  seasons = most_recent_season(),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons	a numeric vector of seasons to return, data available since 2009. Defaults to latest season available.
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

a tibble of season-level injury report data.

See Also

https://nflreadr.nflverse.com/articles/dictionary_injuries.html for a web version of the dictionary

[dictionary_injuries](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({# prevents cran errors
  load_injuries(2020)
})
```

load_nextgen_stats *Load Player Level Weekly NFL Next Gen Stats*

Description

Loads player level weekly stats provided by NFL Next Gen Stats starting with the 2016 season. Three different stat types are available and the current season's data updates every night. NGS will only provide data for players above a minimum number of pass/rush/rec attempts.

Usage

```
load_nextgen_stats(  
  seasons = TRUE,  
  stat_type = c("passing", "receiving", "rushing"),  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	a numeric vector specifying what seasons to return, if TRUE returns all available data
stat_type	one of "passing", "receiving", or "rushing"
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble of week-level player statistics provided by NFL Next Gen Stats. Regular season summary is given for week == 0.

See Also

<https://nextgenstats.nfl.com/stats/passing> for stat_type = "passing"

<https://nextgenstats.nfl.com/stats/receiving> for stat_type = "receiving"

<https://nextgenstats.nfl.com/stats/rushing> for stat_type = "rushing"

https://nflreadr.nflverse.com/articles/dictionary_nextgen_stats.html for a web version of the data dictionary

[dictionary_nextgen_stats](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors
  load_nextgen_stats(stat_type = "passing")
  load_nextgen_stats(stat_type = "receiving")
  load_nextgen_stats(stat_type = "rushing")
})
```

load_officials	<i>Load Officials</i>
----------------	-----------------------

Description

Loads data on which officials are assigned to oversee a specific game. Data available from 2015 onwards.

Usage

```
load_officials(
  seasons = TRUE,
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons	a numeric vector specifying what seasons to return, if TRUE returns all available data
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble with one row per game per official.

See Also

Issues with this data should be filed here: <https://github.com/nflverse/nflreadr> and it will be triaged appropriately.

Examples

```
try({ # prevents cran errors
  load_officials()
})
```

load_participation	<i>Load Participation Data</i>
--------------------	--------------------------------

Description

Loads participation data from the [nflverse-data repository](#)

Usage

```
load_participation(  
  seasons = most_recent_season(),  
  include_pbp = FALSE,  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	A numeric vector of 4-digit years associated with given NFL seasons - defaults to latest season. If set to TRUE, returns all available data since 2016.
include_pbp	a logical: download and join pbp to this data?
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A dataframe of participation data, optionally merged with play by play

Examples

```
try({ # prevents cran errors  
  load_participation(seasons = 2020, include_pbp = TRUE)  
})
```

load_pbp	<i>Load Play By Play</i>
----------	--------------------------

Description

Loads play by play seasons from the [nflverse-data repository](#)

Usage

```
load_pbp(  
  seasons = most_recent_season(),  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	A numeric vector of 4-digit years associated with given NFL seasons - defaults to latest season. If set to TRUE, returns all available data since 1999.
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

The complete nflfastR dataset as returned by nflfastR::build_nflfastR_pbp() (see below) for all given seasons

See Also

https://nflreadr.nflverse.com/articles/dictionary_pbp.html for a web version of the data dictionary

[dictionary_pbp](#) for the data dictionary bundled as a package dataframe

https://www.nflfastR.com/reference/build_nflfastR_pbp.html for the nflfastR function nflfastR::build_nflfastR_pbp()

Issues with this data should be filed here: <https://github.com/nflverse/nflfastR-data>

Examples

```
try({ # prevents cran errors  
  load_pbp(2019:2020)  
})
```

load_pfr_advstats *Load Advanced Stats from PFR*

Description

Loads player level season stats provided by Pro Football Reference starting with the 2018 season, primarily to augment existing nflverse data.

Usage

```
load_pfr_advstats(
  seasons = most_recent_season(),
  stat_type = c("pass", "rush", "rec", "def"),
  summary_level = c("week", "season"),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons	a numeric vector specifying what seasons to return, if TRUE returns all available data
stat_type	one of "pass", "rush", "rec", "def"
summary_level	one of "week" (default) or "season" - some data is only available at the season level
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble of player statistics provided by Pro Football Reference that supplements data in nflverse

See Also

https://nflreadr.nflverse.com/articles/dictionary_pfr_passing.html for the web data dictionary

https://www.pro-football-reference.com/years/2021/passing_advanced.htm

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors
  load_pfr_advstats()
})
```

load_players

Load Players

Description

Load a dataframe of player-level information, including IDs and other mostly-immutable data (birthdates, college, draft position etc.)

Usage

```
load_players(file_type = getOption("nflreadr.prefer", default = "rds"))
```

Arguments

file_type One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble with one row per player.

See Also

Issues with this data should be filed here: <https://github.com/nflverse/nflreadr> and it will be triaged appropriately.

Examples

```
try({ # prevents cran errors
  load_players()
})
```

load_player_stats	<i>Load Player Level Weekly Stats</i>
-------------------	---------------------------------------

Description

Load Player Level Weekly Stats

Usage

```
load_player_stats(
  seasons = most_recent_season(),
  stat_type = c("offense", "kicking"),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons a numeric vector of seasons to return, defaults to most recent season. If set to TRUE, returns all available data.

stat_type one of offense or kicking

file_type One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble of week-level player statistics that aims to match NFL official box scores.

See Also

https://nflreadr.nflverse.com/articles/dictionary_player_stats.html for a web version of the data dictionary

[dictionary_player_stats](#) for the data dictionary

Issues with this data should be filed here: <https://github.com/nflverse/nflfastR-data>

Examples

```
try({ # prevents cran errors
  load_player_stats()
  load_player_stats(stat_type = "kicking")
})
```

load_rosters

Load Rosters

Description

Load Rosters

Usage

```
load_rosters(
  seasons = most_recent_season(roster = TRUE),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons	a numeric vector of seasons to return, defaults to returning this year's data if it is March or later. If set to TRUE, will return all available data. Data available back to 1920.
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with <code>options(nflreadr.prefer)</code>

Value

A tibble of season-level roster data.

See Also

https://nflreadr.nflverse.com/articles/dictionary_rosters.html for a web version of the data dictionary

[dictionary_rosters](#) for the data dictionary as a dataframe

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors
  load_rosters(2020)
})
```

load_rosters_weekly *Load Weekly Rosters*

Description

Returns week level rosters (rather than latest for a given season as returned by `load_rosters()`)

Usage

```
load_rosters_weekly(
  seasons = most_recent_season(roster = TRUE),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

Arguments

seasons	a numeric vector of seasons to return, defaults to returning this year's data if it is March or later. If set to TRUE, will return all available data. Data available back to 2002.
file_type	One of <code>c("rds", "qs", "csv", "parquet")</code> . Can also be set globally with <code>options(nflreadr.prefer)</code>

Value

A tibble of weekly roster data.

See Also

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>

Examples

```
try({ # prevents cran errors
  load_rosters_weekly(2020)
})
```

load_schedules	<i>Load Game/Schedule Data</i>
----------------	--------------------------------

Description

This returns game/schedule information as maintained by Lee Sharpe.

Usage

```
load_schedules(seasons = TRUE)
```

Arguments

seasons a numeric vector of seasons to return, default TRUE returns all available data.

Value

A tibble of game information for past and/or future games.

See Also

https://nflreadr.nflverse.com/articles/dictionary_schedules.html for a web version of the data dictionary

[dictionary_schedules](#) for the data dictionary as a dataframe

Issues with this data should be filed here: <https://github.com/nflverse/nfldata>

Examples

```
try({ # prevents cran errors
  load_schedules(2020)
})
```

load_snap_counts	<i>Load Snap Counts from PFR</i>
------------------	----------------------------------

Description

Loads game level snap counts stats provided by Pro Football Reference starting with the 2013 season.

Usage

```
load_snap_counts(  
  seasons = most_recent_season(),  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

Arguments

seasons	a numeric vector specifying what seasons to return, if TRUE returns all available data
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

Value

A tibble of game-level snap counts provided by Pro Football Reference.

See Also

https://nflreadr.nflverse.com/articles/dictionary_snap_counts.html for the web data dictionary

[dictionary_snap_counts](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: https://github.com/nflverse/pfr_scrapR

Examples

```
try({ # prevents CRAN errors  
  load_snap_counts()  
})
```

load_teams	<i>Load NFL Team Graphics, Colors, and Logos</i>
------------	--

Description

Loads team graphics, colors, and logos - useful for plots!

Usage

```
load_teams()
```

Value

A tibble of team-level image URLs and hex color codes.

See Also

Issues with this data should be filed here: <https://github.com/nflverse/nflfastR-data>

Examples

```
try({ # prevents cran errors
  load_teams()
})
```

load_trades	<i>Load Trades</i>
-------------	--------------------

Description

This returns a table of historical trades as maintained by Lee Sharpe.

Usage

```
load_trades(seasons = TRUE)
```

Arguments

seasons a numeric vector of seasons to return, default TRUE returns all available data.

Value

A tibble of game information for past and/or future games.

See Also

https://nflreadr.nflverse.com/articles/dictionary_trades.html for a web version of the dictionary

[dictionary_trades](#) for the data dictionary as bundled within the package

Issues with this data should be filed here: <https://github.com/nflverse/nfldata>

Examples

```
load_trades(2020)
```

most_recent_season	<i>Get Latest Season</i>
--------------------	--------------------------

Description

A helper function to choose the most recent season available for a given dataset

Usage

```
most_recent_season(roster = FALSE)
```

```
get_latest_season(roster = FALSE)
```

Arguments

roster	a TRUE/FALSE flag: if TRUE, returns the current year if March 1st or later. if FALSE, returns the current year if September 1st or later. Otherwise returns current year minus 1.
--------	---

Value

most recent season (a four digit numeric)

See Also

Other Date utils: [get_current_week\(\)](#)

nflverse_data-class	<i>nflverse data class</i>
---------------------	----------------------------

Description

This class has a special S3 print method that tries to read attached metadata and provide timestamps and source attributes. It otherwise will dispatch to the `data.frame` class.

nflverse_download *Bulk download utilities via piggyback*

Description

This function downloads or updates data from the nflverse-data repository releases, creating subfolders that match the release structure.

Usage

```
nflverse_download(
  ...,
  folder_path = getOption("nflreadr.download_path", default = "."),
  file_type = getOption("nflreadr.prefer", default = "rds"),
  use_hive = file_type %in% c("parquet", "csv")
)
```

Arguments

...	releases to download, provided in either unquoted or character format (i.e. pbp or "pbp" are both fine). Available release names can be listed with nflverse_releases()
folder_path	a folder in which subfolders will be created for each release - defaults to path specified in options(nflreadr.download_path) or "." (the current working directory)
file_type	one of c("rds", "parquet", "csv", "qs") - defaults to file type specified in options(nflreadr.prefer) or "rds"
use_hive	whether to create hive-style partition folders for each season, e.g. "~/pbp/.season=2021/pbp.csv"

Examples

```
{
  try({
    ## could also set options like
    # options(nflreadr.download_path = tempdir(), nflreadr.prefer = "parquet")

    nflverse_download(combine, contracts, folder_path = tempdir(), file_type = "parquet")

    list.files(tempdir(), pattern = ".parquet$") # check that files were downloaded!
  })
}
```

nflverse_releases	<i>List all available nflverse releases</i>
-------------------	---

Description

This function lists all nflverse data releases that are available in the nflverse-data repo. Release names can be used for downloads in `nflverse_download()`.

Usage

```
nflverse_releases()
```

Value

A dataframe containing release names, release descriptions, and other relevant release information.

Examples

```
# Change option for better output
old <- options(piggyback.verbose = FALSE)

try( # avoids cran failures, can skip in normal usage
  nflverse_releases()
)

# Restore old options
options(old)
```

nflverse_sitrep	<i>Get a Situation Report on System, nflverse/ffverse Package Versions and Dependencies</i>
-----------------	---

Description

This function gives a quick overview of the versions of R and the operating system as well as the versions of nflverse/ffverse packages, options, and their dependencies. It's primarily designed to help you get a quick idea of what's going on when you're helping someone else debug a problem.

Usage

```
nflverse_sitrep(
  pkg = c("nflreadr", "nflfastR", "nflseedR", "nfl4th", "nflplotR", "nflverse"),
  recursive = TRUE,
  redact_path = TRUE
)

ffverse_sitrep(
  pkg = c("ffscraper", "ffsimulator", "ffpros", "ffopportunity"),
  recursive = TRUE,
  redact_path = TRUE
)

.sitrep(pkg, recursive = TRUE, header = "", redact_path = TRUE)
```

Arguments

pkg	a character vector naming installed packages, or NULL (the default) meaning all nflverse packages. The function checks internally if all packages are installed and informs if that is not the case.
recursive	a logical indicating whether dependencies of pkg and their dependencies (and so on) should be included. Can also be a character vector listing the types of dependencies, a subset of c("Depends", "Imports", "LinkingTo", "Suggests", "Enhances"). Character string "all" is shorthand for that vector, character string "most" for the same vector without "Enhances", character string "strong" (default) for the first three elements of that vector.
redact_path	a logical indicating whether options that contain "path" in the name should be redacted, default = TRUE
header	a string that is printed in the horizontal separation lines and used to differentiate between nflverse and ffverse output.

Examples

```
try({
  nflverse_sitrep()
  ffverse_sitrep()
  .sitrep("cachem")
})
```

parquet_from_url

Load .parquet file from a remote connection

Description

Retrieves a parquet file from URL. This function is cached

Usage

```
parquet_from_url(url)
```

Arguments

url a character url

Value

a dataframe as parsed by `arrow::read_parquet()`

Examples

```
try({
  parquet_from_url(
    "https://github.com/nflverse/nflverse-data/releases/download/player_stats/player_stats.parquet"
  )
})
```

player_name_mapping *Alternate player name mappings*

Description

A named character vector mapping common alternate names, re-exported from ffscraper.

Usage

```
player_name_mapping
```

Format

A named character vector

name attribute The "alternate" name.

value attribute The "correct" name.

Details

You can suggest additions to this table by [opening an issue in ffscraper](#).

Examples

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

progressively	<i>Progressively</i>
---------------	----------------------

Description

This function helps add progress-reporting to any function - given function `f()` and progressor `p()`, it will return a new function that calls `f()` and then (on-exiting) will call `p()` after every iteration.

Usage

```
progressively(f, p = NULL)
```

Arguments

<code>f</code>	a function to add progressr functionality to.
<code>p</code>	a progressor function as created by <code>progressr::progressor()</code>

Details

This is inspired by `purrr`'s `safely`, `quietly`, and `possibly` function decorators.

Value

a function that does the same as `f` but it calls `p()` after iteration.

See Also

https://nflreadr.nflverse.com/articles/exporting_nflreadr.html for vignette on exporting `nflreadr` in packages

Examples

```
try({ # prevents cran errors

read_rosters <- function(){
  urls <- c("https://github.com/nflverse/nflfastR-roster/raw/master/data/seasons/roster_2020.csv",
           "https://github.com/nflverse/nflfastR-roster/raw/master/data/seasons/roster_2021.csv")

  p <- progressr::progressor(along = urls)
  lapply(urls, progressively(read.csv, p))
}

progressr::with_progress(read_rosters())

})
```

qs_from_url	<i>Load .qs file from a remote connection</i>
-------------	---

Description

Load .qs file from a remote connection

Usage

```
qs_from_url(url)
```

Arguments

url a character url

Value

a dataframe as parsed by `qs::qdeserialize()`

Examples

```
try({
  qs_from_url(
    "https://github.com/nflverse/nflverse-data/releases/download/player_stats/player_stats.qs"
  )
})
```

raw_from_url	<i>Load raw filedata from a remote connection</i>
--------------	---

Description

This function allows you to retrieve data from a URL into raw format, which can then be passed into the appropriate file-reading function. Data is memoised/cached for 24 hours.

Usage

```
raw_from_url(url)
```

Arguments

url a character url

Value

a raw vector

Examples

```
head(raw_from_url(
  "https://github.com/nflverse/nflverse-data/releases/download/player_stats/player_stats.parquet"
),
50)
```

rds_from_url	<i>Load .rds file from a remote connection</i>
--------------	--

Description

Load .rds file from a remote connection

Usage

```
rds_from_url(url)
```

Arguments

url a character url

Value

a dataframe as created by [readRDS\(\)](#)

Examples

```
try({ # prevents cran errors
  rds_from_url("https://github.com/nflverse/nfldata/raw/master/data/games.rds")
})
```

team_abbr_mapping	<i>Alternate team abbreviation mappings</i>
-------------------	---

Description

A named character vector mapping common alternate team abbreviations.

Usage

```
team_abbr_mapping
```

Format

A named character vector

name attribute The "alternate" name.

value attribute The "correct" name.

Details

You can suggest additions to this table by [opening an issue in nflreadr](#).

See Also

team_abbr_mapping_norelocate for the same thing but relocations stay in their original cities.

Examples

```
team_abbr_mapping[c("STL", "OAK", "CRD", "BLT", "CLV")]
```

team_abbr_mapping_norelocate	<i>Alternate team abbreviation mappings, no relocation</i>
------------------------------	--

Description

A named character vector mapping common alternate team abbreviations, but does not follow relocations to their current city.

Usage

```
team_abbr_mapping_norelocate
```


Format

A named character vector

name attribute The "alternate" name.

value attribute The "correct" name.

Details

You can suggest additions to this table by [opening an issue in nflreadr](#).

Examples

```
team_abbr_mapping_norelocate[c("STL", "OAK", "CRD", "BLT", "CLV")]
```

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