# Package: nflreadr (via r-universe)

August 27, 2024

```
Title Download 'nflverse' Data
Version 1.4.1.02
Description A minimal package for downloading data from 'GitHub'
     repositories of the 'nflverse' project.
License MIT + file LICENSE
URL https://nflreadr.nflverse.com,
     https://github.com/nflverse/nflreadr
BugReports https://github.com/nflverse/nflreadr/issues
Depends R (>= 3.6.0)
Imports cachem (>= 1.0.0), cli (>= 3.0.0), curl (>= 4.3.0), data.table
     (>= 1.14.0), glue (>= 1.4.0), memoise (>= 2.0.0), methods,
     rappdirs (>= 0.3.0), rlang (>= 0.4.10), tools, utils
Suggests arrow (>= 6.0.0), covr (>= 3.0.0), DT (>= 0.15.0), fs (>=
     1.5.0), gh (>= 1.0.0), knitr (>= 1.0.0), piggyback (>= 0.1.2),
     progressr (>= 0.8.0), qs (>= 0.24.0), rmarkdown (>= 2.6.0),
     stringi, testthat (>= 3.0.0)
VignetteBuilder knitr
Config/testthat/edition 3
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```

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clea	n_homeaway Clean Home/Away in dataframes into Team/Opponent dataframes	

# 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)

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#### **Examples**

```
# a small example dataframe
s <- data.frame(
    game_id = c("2020_20_TB_GB", "2020_20_BUF_KC", "2020_21_KC_TB"),
    game_type = c("CON", "CON", "SB"),
    away_team = c("TB", "BUF", "KC"),
    away_score = c(31L, 24L, 9L),
    home_team = c("GB", "KC", "TB"),
    home_score = c(26L, 38L, 31L),
    location = c("Home", "Home", "Neutral"),
    result = c(-5L, 14L, 22L),
    spread_line = c(3, 3, -3)
)
clean_homeaway(s, invert = c("result", "spread_line"))</pre>
```

clean\_player\_names

Create Player Merge Names

# **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,
  convert_to_ascii = rlang::is_installed("stringi")
)
```

### Arguments

```
player_name a character vector of player names

lowercase defaults to FALSE - if TRUE, converts to lowercase

convert_lastfirst

defaults to TRUE - converts names from "Last, First" to "First Last"
```

clean\_team\_abbrs 5

```
use_name_database
```

uses internal name database to do common substitutions (Mitchell Trubisky to Mitch Trubisky etc)

```
convert_to_ascii
```

If TRUE, will transliterate to latin-ascii via the stringi package. Defaults to TRUE if the stringi package is installed.

#### **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\_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)</pre>
```

clear\_cache

Clear function cache

# **Description**

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

# Usage

```
clear_cache()
.clear_cache()
```

### Value

A success message after clearing the cache.

# **Examples**

```
clear_cache()
```

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 or some character columns to factors? Acceptable inputs are TRUE, FALSE, or a decimal value between 0.0 and 1.0. For stringsAsFactors = FALSE, all string columns are stored as character vs. all stored as factor when TRUE. When stringsAsFactors = p for 0 <= p <= 1, string columns col are stored as factor if uniqueN(col)/nrow < p.

- 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

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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/nflverse-data/releases/download/test/combines.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.

```
vignette("Data Dictionary - Combine")
https://nflreadr.nflverse.com/articles/dictionary_combine.html
```

dictionary\_contracts 11

# 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.

```
vignette("Data Dictionary - Depth Charts")
https://nflreadr.nflverse.com/articles/dictionary_depth_charts.html
```

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```
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.

```
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.

```
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_ftn_charting
```

Data Dictionary: FTN Charting Data

# Description

A dataframe containing the data dictionary for load\_ftn\_charting()

# Usage

```
dictionary_ftn_charting
```

### **Format**

An object of class data. frame with 28 rows and 5 columns.

```
vignette("Data Dictionary - FTN Charting")
https://nflreadr.nflverse.com/articles/dictionary_ftn_charting.html
Other ftn_charting: load_ftn_charting()
```

dictionary\_injuries 15

# 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.

```
vignette("Data Dictionary - Next Gen Stats")
https://nflreadr.nflverse.com/articles/dictionary_nextgen_stats.html
```

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```
dictionary_participation
```

Data Dictionary: Participation

# Description

A dataframe containing the data dictionary for load\_participation()

# Usage

```
dictionary_participation
```

#### **Format**

An object of class data. frame with 19 rows and 3 columns.

#### See Also

```
vignette("Data Dictionary - Participation")
https://nflreadr.nflverse.com/articles/dictionary_participation.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.

```
vignette("Data Dictionary - PBP")
https://nflreadr.nflverse.com/articles/dictionary_pbp.html
```

dictionary\_pfr\_passing 17

```
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.

```
vignette("Data Dictionary - Player Stats")
https://nflreadr.nflverse.com/articles/dictionary_player_stats.html
```

18 dictionary\_rosters

```
dictionary_player_stats_def

Data Dictionary: Player Stats Defense
```

# **Description**

A dataframe containing the data dictionary for load\_player\_stats()

# Usage

```
dictionary_player_stats_def
```

#### **Format**

An object of class data. frame with 22 rows and 3 columns.

# See Also

```
vignette("Data Dictionary - Player Stats Defense")
https://nflreadr.nflverse.com/articles/dictionary_player_stats_def.html
```

# 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.

```
vignette("Data Dictionary - Rosters")
https://nflreadr.nflverse.com/articles/dictionary_rosters.html
```

dictionary\_schedules 19

# 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.

```
vignette("Data Dictionary - Snap Counts")
https://nflreadr.nflverse.com/articles/dictionary_snap_counts.html
```

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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

Get Current Week

### 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)

#### **Details**

Note that the date heuristic will count a new week starting on Thursdays, while the schedule-based method will count a new week after the last game of the previous week, e.g. after MNF is completed. Tan and Ben argued for a while about this.

### Value

current nfl regular season week as a numeric

join\_coalesce 21

#### 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)
}
```

join\_coalesce

Coalescing join

# **Description**

EXPERIMENTAL! This function joins two dataframes together by key, and then coalesces any columns that have shared names (i.e. fills in NAs). A utility function primarily used internally within nflverse to help build player IDs

# Usage

```
join_coalesce(
    x,
    y,
    by = NULL,
    type = c("left", "inner", "full"),
    ...,
    by.x = NULL,
    by.y = NULL,
    sort = TRUE,
    incomparables = c(NA, NaN)
)
```

#### **Arguments**

```
    x, y dataframes. Will be coerced to data.table
    by keys to join on, as a plain or named character vector
    type one of "left" (all rows of x and matching rows of y), "inner" (matching rows of x and y), "full" (all rows of x and y)
    other args passed to merge.data.frame()
```

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```
by . x, by . y alternate form of keys to join on - if provided, will override by.

sort whether to sort output by the join keys

incomparables keys to NOT match on, i.e. NA should not match on NA.
```

#### Value

a data.frame joining x and y dataframes together, with every column from both x and y and patching NA values in x with those in y.

#### **Examples**

load\_combine

Load Combine Data from PFR

# 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 options(nflreadr.prefer)
```

#### Value

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

load\_contracts 23

#### 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

Load Historical Player Contracts from OverTheCap.com

# 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.

```
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
```

24 load\_depth\_charts

### **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

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

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

load\_draft\_picks 25

load\_draft\_picks

Load Draft Picks from PFR

# **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 options(nflreadr.prefer)

#### Value

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

### See Also

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

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

26 load\_espn\_qbr

load\_espn\_qbr

Load ESPN's QBR

# **Description**

Load ESPN's QBR

### Usage

```
load_espn_qbr(
  seasons = most_recent_season(),
  summary_type = c("season", "week"),
  file_type = getOption("nflreadr.prefer", default = "rds")
)
```

# **Arguments**

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 "week", defaults to "season"

file\_type

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

# Value

a tibble of ESPN QBR data, summarized according to summary\_type

#### See Also

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

```
load_espn_qbr(2020)
```

load\_ff\_opportunity 27

```
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
```

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

28 load\_ff\_rankings

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)

load\_from\_url 29

# 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

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

# 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
```

30 load\_ftn\_charting

### **Examples**

load\_ftn\_charting

Load FTN Charting Data

# **Description**

FTN Data manually charts plays and has graciously provided a subset of their charting data to be published via the nflverse. Data is available from the 2022 season onwards and is charted within 48 hours following each game. This data is released under the CC-BY-SA 4.0 Creative Commons license and attribution must be made to FTN Data via nflverse

### Usage

```
load_ftn_charting(
  seasons = most_recent_season(),
  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. Data available from 2022 onwards.

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

#### Value

Play-level manual charting data from FTN Data

# Author(s)

FTN Data

#### Source

FTNData.com

load\_injuries 31

#### See Also

```
https://www.ftndata.com
vignette("Data Dictionary - FTN Charting")
https://nflreadr.nflverse.com/articles/dictionary_ftn_charting.html for the web data dictionary
Other ftn_charting: dictionary_ftn_charting
```

# **Examples**

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

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

32 load\_nextgen\_stats

### **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.

```
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
```

load\_officials 33

#### **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

Load Officials

### **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: <a href="https://github.com/nflverse/nflreadr">https://github.com/nflverse/nflreadr</a> and it will be triaged appropriately.

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

34 load\_pbp

load\_participation Load

Load Participation Data

# **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

Load Play By Play

# **Description**

Loads play by play seasons from the nflverse-data repository

load\_pfr\_advstats 35

#### 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/nflverse-pbp

# **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.

36 load\_players

#### 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

 $\verb|https://nflreadr.nflverse.com/articles/dictionary_pfr_passing.html| for the web data dictionary| | the following continuous cont$ 

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.)

load\_player\_stats 37

## 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

Load Player Level Weekly Stats

# Description

Load Player Level Weekly Stats

# Usage

```
load_player_stats(
  seasons = most_recent_season(),
  stat_type = c("offense", "defense", "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", "defense", or "kicking"
file_type	One of c("rds", "qs", "csv", "parquet"). Can also be set globally with options(nflreadr.prefer)

38 load\_rosters

# 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/nflverse-pbp

# **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		
	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 options(nflreadr.prefer)		

## Value

A tibble of season-level roster data.

load\_rosters\_weekly 39

## 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 c("rds", "qs", "csv", "parquet"). Can also be set globally with

options(nflreadr.prefer)

## Value

A tibble of weekly roster data.

#### See Also

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

40 load\_schedules

# **Examples**

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

load\_schedules

Load Game/Schedule Data

# **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

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

load\_snap\_counts 41

load\_snap\_counts

Load Snap Counts from PFR

# **Description**

Loads game level snap counts stats provided by Pro Football Reference starting with the 2012 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/nflverse-pfr

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

42 load\_trades

load\_teams

Load NFL Team Graphics, Colors, and Logos

# **Description**

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

## Usage

```
load_teams(current = TRUE)
```

# **Arguments**

current

If TRUE (the default), returns a standardized list of current teams only, with abbreviations as per team\_abbr\_mapping.

# 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/nflverse-pbp

# **Examples**

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

load\_trades

Load Trades

# 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.

most\_recent\_season 43

## Value

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

#### See Also

```
\verb|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

Get Latest Season

## **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)
get_current_season(roster = FALSE)
```

## **Arguments**

roster

Either TRUE or FALSE. If TRUE, will return current year after March 15th, otherwise previous year. If FALSE, will return current year on or after Thursday following Labor Day, i.e. Thursday after the first Monday in September. Otherwise previous year.

#### Value

```
most recent season (a four digit numeric)
```

#### See Also

```
Other Date utils: get_current_week()
```

44 nflverse\_download

```
nflverse_data_timezone

nflverse Timezone
```

## **Description**

A character string defining the default timezone for data across the nflverse

#### **Usage**

```
nflverse_data_timezone
```

#### **Format**

An object of class character of length 1.

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"),
    .token = "default"
)
```

## **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"

token a GitHub API token, "default" uses gh::gh_token()
```

nflverse\_game\_id 45

# **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\_game\_id

Compute nflverse Game Identifiers

# Description

Compute nflverse Game Identifiers

# Usage

```
nflverse_game_id(season, week, away, home)
```

# **Arguments**

season 4 digit season between 1999 and the output of most\_recent\_season()

week Numeric or character giving the week, between 1 and 22.

home, away Valid NFL team abbreviation as it can be found in team\_abbr\_mapping

## Value

A character vector

```
nflverse_game_id(2022, 2, "LAC", "KC")
```

46 nflverse\_sitrep

nflverse\_releases

List all available nflverse releases

# **Description**

This functions 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(.token = "default")
```

# **Arguments**

```
.token a GitHub API token, "default" uses gh::gh_token()
```

## Value

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

# **Examples**

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

nflverse\_sitrep

Get a Situation Report on System, nflverse/ffverse Package Versions and Dependencies

# 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.

nflverse\_sitrep 47

## Usage

```
nflverse_sitrep(
 pkg = c("nflreadr", "nflfastR", "nflseedR", "nfl4th", "nflplotR", "nflverse"),
  recursive = TRUE,
  redact_path = TRUE
)
ffverse_sitrep(
  pkg = c("ffscrapr", "ffsimulator", "ffpros", "ffopportunity"),
  recursive = TRUE,
  redact_path = TRUE
)
.sitrep(
  pkg,
  recursive = TRUE,
  redact_path = TRUE,
 dev_repos = c("https://nflverse.r-universe.dev", "https://ffverse.r-universe.dev")
)
```

## **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

dev\_repos Developmental cran-like repos to check, e.g. r-universe repos

```
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 ffscrapr.

# Usage

```
player_name_mapping
```

# **Format**

A named character vector

```
name attribute The "alternate" name.value attribute The "correct" name.
```

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## **Details**

You can suggest additions to this table by opening an issue in ffscrapr.

## **Examples**

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

progressively

**Progressively** 

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

## Usage

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

# **Arguments**

f a function to add progressor functionality to.

p a function such as one created by progressr::progressor() - also accepts purrr-style lambda functions.

#### 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

```
try({ # prevents cran errors
urls <- rep("https://github.com/nflverse/nflverse-data/releases/download/test/combines.csv",3)
lapply(urls, progressively(read.csv, ~cli::cli_progress_step('Loading...')))
read_rosters <- function(urls){
   p <- progressr::progressor(along = urls)</pre>
```

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```
lapply(urls, progressively(read.csv, p))
}
progressr::with_progress(read_rosters())
})
```

qs\_from\_url

Load .qs file from a remote connection

# 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()
```

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

raw\_from\_url 51

raw\_from\_url

Load raw filedata from a remote connection

# **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**

```
try({ # prevents CRAN errors
head(raw_from_url(
   "https://github.com/nflverse/nflverse-data/releases/download/test/combines.rds"
),
50)
})
```

rds\_from\_url

Load .rds file from a remote connection

# Description

Load .rds file from a remote connection

# Usage

```
rds_from_url(url)
```

# **Arguments**

url

a character url

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# Value

```
a dataframe as created by readRDS()
```

# **Examples**

```
try({ # prevents cran errors
  rds_from_url("https://github.com/nflverse/nflverse-data/releases/download/test/combines.rds")
})
```

stat\_mode

Statistical Mode

# **Description**

Computes the statistical mode, i.e. the value that appears most often in a vector. Returns the first match, if TRUE for multiple values.

## Usage

```
stat_mode(x, ..., na.rm = FALSE)
```

# **Arguments**

x A vector of data values.

Further arguments, currently unused.

na.rm a logical evaluating to TRUE or FALSE indicating whether NA values should be stripped before the computation proceeds.

## Value

The statistical mode with the same type as the input vector x.

```
vector_numeric <- sample(1:5, 15, TRUE)
vector_numeric
stat_mode(vector_numeric)

vector_character <- sample(LETTERS[1:5], 15, TRUE)
vector_character
stat_mode(vector_character)</pre>
```

team\_abbr\_mapping 53

team\_abbr\_mapping

Alternate team abbreviation mappings

# 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
```

Alternate team abbreviation mappings, no relocation

# 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.

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

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