

# Package ‘nflreadr’

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**Title** Download 'nflverse' Data

**Version** 1.4.1

**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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**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)

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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**

```
# 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"))
```

---

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 `ffscraper::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"

`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 `ffscraper::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)
```

---

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

---

**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	<i>Load .csv / .csv.gz file from a remote connection</i>
--------------	--

---

**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  $0 \leq p \leq 1$ , 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 `tmpdir()` which can be controlled by setting `TMPDIR` before starting the R session; see `base::tmpdir`.

`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/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.

### See Also

`vignette("Data Dictionary - Combine")`

[https://nflreadr.nflverse.com/articles/dictionary\\_combine.html](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](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](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](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](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](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](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](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.

**See Also**

```
vignette("Data Dictionary - FTN Charting")
```

[https://nflreadr.nflverse.com/articles/dictionary\\_ftn\\_charting.html](https://nflreadr.nflverse.com/articles/dictionary_ftn_charting.html)

Other `ftn_charting`: `load_ftn_charting()`

---

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](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](https://nflreadr.nflverse.com/articles/dictionary_nextgen_stats.html)

---

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](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.

**See Also**

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

[https://nflreadr.nflverse.com/articles/dictionary\\_pbp.html](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](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](https://nflreadr.nflverse.com/articles/dictionary_player_stats.html)

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](https://nflreadr.nflverse.com/articles/dictionary_player_stats_def.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](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](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](https://nflreadr.nflverse.com/articles/dictionary_snap_counts.html)

---

dictionary_trades	<i>Data Dictionary: Trades</i>
-------------------	--------------------------------

---

**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](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**

<code>use_date</code>	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

**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	<i>Coalescing join</i>
---------------	------------------------

---

**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()

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**

```
x <- data.frame(id1 = c(NA_character_, letters[1:4]), a = c(1, NA, 3, NA, 5), b = 1:5 * 10)
y <- data.frame(id2 = c(letters[3:11], NA_character_), a = -(1:10), c = 1:10 * 100)

join_coalesce(x, y, by = c("id1"="id2"))
join_coalesce(x, y, by.x = "id1", by.y = "id2")
join_coalesce(x, y, by = c("id1"="id2"), type = "inner")
join_coalesce(x, y, by = c("id1"="id2"), type = "full")
```

---

 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.

**See Also**

Issues with this data should be filed here: <https://github.com/nflverse/nflverse-data>  
[https://nflreadr.nflverse.com/articles/dictionary\\_combine.html](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](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](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](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(  
  seasons = most_recent_season(),  
  summary_type = c("season", "week"),  
  file_type = getOption("nflreadr.prefer", default = "rds")  
)
```

**Arguments**

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 "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**

[https://nflreadr.nflverse.com/articles/dictionary\\_espn\\_qbr.html](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/espnsrapeR-data>

**Examples**

```
load_espn_qbr(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](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](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](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

## 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\_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

**See Also**

<https://www.ftndata.com>

vignette("Data Dictionary - FTN Charting")

[https://nflreadr.nflverse.com/articles/dictionary\\_ftn\\_charting.html](https://nflreadr.nflverse.com/articles/dictionary_ftn_charting.html) for the web data dictionary

Other ftm\_charting: [dictionary\\_ftm\\_charting](#)

**Examples**

```
try({ # prevents cran errors
  load_ftm_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](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](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      *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](#)

**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](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](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.

**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](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](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", "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)

**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](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\_rovers

*Load Rosters*

---

**Description**

Load Rosters

**Usage**

```
load_rovers(
  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](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](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 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](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>

### 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(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	<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](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)
```

```
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\(\)](#)

---

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 <a href="#">nflverse_releases()</a>
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()

## 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	<i>Compute nflverse Game Identifiers</i>
------------------	--

---

**Description**

Compute nflverse Game Identifiers

**Usage**

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

**Arguments**

season	4 digit season between 1999 and the output of <a href="#">most_recent_season()</a>
week	Numeric or character giving the week, between 1 and 22.
home, away	Valid NFL team abbreviation as it can be found in <a href="#">team_abbr_mapping</a>

**Value**

A character vector

**Examples**

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

---

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

---

**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 <code>gh::gh_token()</code>
--------	--

**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	<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,
  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 <code>c("Depends", "Imports", "LinkingTo", "Suggests", "Enhances")</code> . 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

### 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	<i>Alternate player name mappings</i>
---------------------	---------------------------------------

---

**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.

**Details**

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

**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. 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](https://nflreadr.nflverse.com/articles/exporting_nflreadr.html) for vignette on exporting nflreadr in packages

**Examples**

```
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)
  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()`

## Examples

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

---

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	<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/nflverse-data/releases/download/test/combines.rds")
})
```

---

stat_mode	<i>Statistical Mode</i>
-----------	-------------------------

---

**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`.

**Examples**

```
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)
```

---

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`*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](#).

**Examples**

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

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