

Package: softballR (via r-universe)

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Type Package

Title Easily Accessible College Softball Data

Version 1.4.0

Description A tool for accessing the data hidden on ESPN<<https://www.espn.com>>, NCAA<<https://www.ncaa.com>>, and a few others. Scrapes player boxes, team boxes, play-by-play, rankings, team stats, individual stats, and whatever else I can find online.

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espn_json	<i>Gets full ESPN JSON file (Helper Function)</i>
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Description

Gets full ESPN JSON file (Helper Function)

Usage

espn_json(gameID)

Arguments

gameID	ESPN Game ID
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Value

The entire json file for a given gameID on ESPN’s website

Author(s)

Tyson King

Examples

```
ID = 401444869
try(espn_json(ID))
```

espn_softball_pbp	<i>Get ESPN Play-by-Play data</i>
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Description

Get ESPN Play-by-Play data

Usage

```
espn_softball_pbp(gameID)
```

Arguments

gameID	ESPN Game ID
--------	--------------

Value

A data frame of every pitch of the given game

Author(s)

Tyson King

Examples

```
ID = 401444869
try(espn_softball_pbp(ID))
```

`espn_softball_playerbox`*Get ESPN Player Box Score for given game*

Description

Get ESPN Player Box Score for given game

Usage

```
espn_softball_playerbox(gameID)
```

Arguments

gameID	ESPN Game ID
--------	--------------

Value

A named list of dataframes, hitting and pitching

Author(s)

Tyson King

Examples

```
ID = 401444869
try(espn_softball_playerbox(ID))
```

`espn_softball_scoreboard`*Get ESPN Softball Scoreboard*

Description

Get ESPN Softball Scoreboard

Usage

```
espn_softball_scoreboard(date)
```

Arguments

date	YYYY-MM-DD
------	------------

Value

data frame with 21 columns of relevant game information

Author(s)

Tyson King

Examples

```
try(espn_softball_scoreboard("2022-03-05"))
```

espn_softball_teambox *Get ESPN Team Box Score for given game*

Description

Get ESPN Team Box Score for given game

Usage

```
espn_softball_teambox(gameID)
```

Arguments

gameID	ESPN Game ID
--------	--------------

Value

A named list of dataframes, Batting, Pitching, and Fielding

Author(s)

Tyson King

Examples

```
ID = 401444869
try(espn_softball_teambox(ID))
```

get_cur_season	<i>Get the current season</i>
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Description

Get the current season

Usage

```
get_cur_season()
```

Value

integer of current season

Examples

```
try(get_cur_season())
```

get_espn_softball_season_scoreboard	<i>Get ESPN Softball Season Scoreboard</i>
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Description

Disclaimer: Can take a while to run

Usage

```
get_espn_softball_season_scoreboard(season)
```

Arguments

season	YYYY (2015 - 2022)
--------	--------------------

Value

data frame with data from every game in the given season

Author(s)

Tyson King

Examples

```
try(get_espn_softball_season_scoreboard(2021))
```

```
load_espn_softball_scoreboard
```

Load ESPN Scoreboard

Description

Load ESPN Scoreboard

Usage

```
load_espn_softball_scoreboard(seasons)
```

Arguments

seasons vector of seasons (YYYY:YYYY)

Value

dataframe of all games on ESPN website from selected seasons

Examples

```
try(load_espn_softball_scoreboard(2020:2023))
```

```
load_naia_softball_pbp
```

Load NAIA PBP

Description

Only supports 2023 season for now

Usage

```
load_naia_softball_pbp(season)
```

Arguments

season YYYY

Value

dataframe of all play by play data for an NAIA season

Examples

```
try(load_naia_softball_pbp(2023))
```

```
load_naia_softball_scoreboard
```

Load NAIA Scoreboard

Description

Only supports 2023 season for now

Usage

```
load_naia_softball_scoreboard(season)
```

Arguments

```
season          YYYY
```

Value

dataframe of all games from NAIA website from selected season

Examples

```
try(load_naia_softball_scoreboard(2023))
```

```
load_ncaa_softball_group_aliases
```

Load NCAA softball group aliases

Description

Every name and id a source uses for an NCAA softball division or conference, with the seasons it is valid for – the crosswalk from stats.ncaa.org conference ids and names to SportsDataverse group ids. Published to the ncaa_softball_groups release tag on the sportsdataverse-data releases.

Usage

```
load_ncaa_softball_group_aliases()
```

Value

A tibble with the following columns:

col_name	types	description
league	character	League key.
group_id	character	SportsDataverse group id, {league}:{slug}.
source	character	Source that uses the alias (e.g. ncaa, sdv).
source_id	character	The source's own id for the group (e.g. the NCAA conference id), when it has one.
name_kind	character	Alias kind: name, short_name, abbreviation, slug or code.
value	character	The alias.
valid_from	integer	First season the alias is valid (inclusive); NA = unbounded.
valid_to	integer	Last season the alias is valid (inclusive); NA = unbounded.

Examples

```
try(load_ncaa_softball_group_aliases())
```

```
load_ncaa_softball_group_seasons
```

Load NCAA softball division and conference names and parents by season

Description

One row per NCAA softball group per season it existed, with the name, abbreviation and parent group **as of that season** (not today's). Published to the ncaa_softball_groups release tag on the sportsdataverse-data releases. Seasons are keyed by the spring year.

Usage

```
load_ncaa_softball_group_seasons()
```

Value

A tibble with the following columns:

col_name	types	description
league	character	League key.
group_id	character	SportsDataverse group id, {league}:{slug}.
season	integer	Season (spring year).
level	character	Group level: league, subdivision or conference.
name	character	Group name as of that season.
short_name	character	Short name as of that season.
abbreviation	character	Abbreviation as of that season.
parent_group_id	character	Parent group id as of that season (conference, subdivision, league).

n_teams integer Member teams that season.

Examples

```
try(load_ncaa_softball_group_seasons())
```

load_ncaa_softball_groups
<i>Load NCAA softball groups (divisions and conferences)</i>

Description

One row per NCAA softball group lineage (divisions I-III and their conferences), keyed by the SportsDataverse group id (e.g. ncaa_softball:sec). Published to the ncaa_softball_groups release tag on the [sportsdataverse-data releases](#) by [sdv-reference-data](#). Seasons are keyed by the spring year (2025 = the spring 2025 season).

Usage

```
load_ncaa_softball_groups()
```

Value

A tibble with the following columns:

col_name	types	description
league	character	League key.
group_id	character	SportsDataverse group id, {league}:{slug}; one id per lineage across renames.
level	character	Group level: league, subdivision or conference.
first_season	integer	First season with at least one member.
last_season	integer	Last season with at least one member.
notes	character	Lineage decisions and source caveats.

Examples

```
try(load_ncaa_softball_groups())
```

```
load_ncaa_softball_pbp
```

Load NCAA PBP

Description

Play-by-play for every game of an NCAA season. The softballR-data release starts in 2021 (D1, D2 and D3); any season up to the current calendar year is accepted and a season that has not been published yet returns a try-error from the download.

Usage

```
load_ncaa_softball_pbp(season, division = "D1")
```

Arguments

season	YYYY
division	D1, D2, or D3

Value

dataframe of all play by play data for an NCAA season

Examples

```
try(load_ncaa_softball_pbp(2024))
```

```
load_ncaa_softball_playerbox
```

Load NCAA Player Box Scores

Description

Hitting: D1 from 2012, D2 and D3 from 2016. Pitching: D1 from 2015, D2 and D3 from 2016. Fielding: D1 2023 only. Any season up to the current calendar year is accepted; one the release has not published yet fails at the download.

Usage

```
load_ncaa_softball_playerbox(season = 2024, category, division = "D1")
```

Arguments

season	YYYY can also use vector of years
category	Hitting, Pitching, or Fielding
division	D1, D2, or D3

Value

dataframe of all box scores from NCAA website from selected season

Examples

```
try(load_ncaa_softball_playerbox(2021:2024, category = "Hitting"))
```

load_ncaa_softball_rosters
<i>Load NCAA Roster</i>

Description

Supports 2016-2023 for all divisions

Usage

```
load_ncaa_softball_rosters(season, division = "D1")
```

Arguments

- season YYYY format, pass season or vector of seasons 2021-2023
- division "D1", "D2", or "D3"

Value

dataframe of all rosters from given season(s) and division

Examples

```
try(load_ncaa_softball_rosters(2022:2023))
```

load_ncaa_softball_scoreboard
<i>Load NCAA Scoreboard</i>

Description

Supports 2016-2023 for all divisions

Usage

```
load_ncaa_softball_scoreboard(season, division = "D1")
```

Arguments

season YYYY format, pass season or vector of seasons
division "D1", "D2", or "D3"

Value

dataframe of all games from NCAA website from selected season

Examples

```
try(load_ncaa_softball_scoreboard(2022:2024))
```

load_ncaa_softball_team_group_seasons

Load NCAA softball team division and conference memberships by season

Description

One row per NCAA softball team per season, with the division (subdivision_id) and conference it played in that season, e.g. Texas and Oklahoma moving from ncaa_softball:big-12 (2024) to ncaa_softball:sec (2025). team_id is the stats.ncaa.org org id. Published to the ncaa_softball_groups release tag on the sportsdataverse-data releases, one file per season.

Usage

```
load_ncaa_softball_team_group_seasons(seasons)
```

Arguments

seasons A vector of 4-digit seasons (the spring year), or TRUE for every published season. (Min: 1982)

Value

A tibble with the following columns:

col_name	types	description
league	character	League key.
season	integer	Season (spring year).
team_id	character	stats.ncaa.org org id.
team_id_source	character	Id system of team_id (ncaa_org).
team_name	character	Team name as of that season.
subdivision_id	character	SportsDataverse division group id (e.g. ncaa_softball:d1).
conference_id	character	SportsDataverse conference group id; NA where the level does not apply.
division_id	character	SportsDataverse division-within-conference group id; NA when not used.
source	character	Source the membership came from.

sources_agree	logical	Whether a second source agrees; NA when only one source covers the season.
notes	character	Notes.

Examples

```
try(load_ncaa_softball_team_group_seasons(seasons = 2025))
```

load_ncaa_softball_team_info
<i>Load all-time info for all NCAA softball teams (all divisions)</i>

Description

Load all-time info for all NCAA softball teams (all divisions)

Usage

```
load_ncaa_softball_team_info()
```

Value

df with 9 columns of info on each season of each team

Examples

```
try(load_ncaa_softball_team_info())
```

naia_softball_pbp	<i>Get NCAA play-by-play data for a given game id and game date</i>
-------------------	---

Description

only has D1 data for now

Usage

```
naia_softball_pbp(game_id, game_date)
```

Arguments

game_id	NAIA Game ID
game_date	YYYY-MM-DD format

Value

dataframe of every play from a given game

Examples

```
try(naia_softball_pbp("r7z2", "2023-02-05"))
```

naia_softball_playerbox

Get all box scores for a given game id and date

Description

Get all box scores for a given game id and date

Usage

```
naia_softball_playerbox(game_id, game_date)
```

Arguments

game_id	NAIA Game ID
game_date	YYYY-MM-DD format

Value

named list with two elements, "Hitting" and "Pitching" Each contains a dataframe of the box scores for that game

Examples

```
try(naia_softball_playerbox("r7z2", "2023-02-05"))
```

naia_softball_scoreboard

Get all NAIA softball scores for a given day

Description

Get all NAIA softball scores for a given day

Usage

```
naia_softball_scoreboard(date)
```

Arguments

date "YYYY-MM-DD"

Value

data frame of date, team names and their scores

Author(s)

Tyson King

Examples

```
date = "2022-03-05"  
try(naia_softball_scoreboard(date))
```

naia_softball_season_scoreboard

Get all NAIA softball scores for a given season

Description

Get all NAIA softball scores for a given season

Usage

```
naia_softball_season_scoreboard(season)
```

Arguments

season YYYY Only 2023 for now

Value

data frame of date, team names and their scores

Examples

```
season = "2023"  
try(naia_softball_season_scoreboard(season))
```

ncaa_softball_pbp	<i>Get NCAA play-by-play data for an entire season</i>
-------------------	--

Description

only has D1 data for now

Usage

```
ncaa_softball_pbp(game_id)
```

Arguments

game_id	NCAA Game ID
---------	--------------

Value

dataframe of every play from team's season

Examples

```
try(ncaa_softball_pbp(2377327))
```

ncaa_softball_playerbox	<i>Get all box scores for a given game id</i>
-------------------------	---

Description

Get all box scores for a given game id

Usage

```
ncaa_softball_playerbox(game_id)
```

Arguments

game_id	NCAA Game ID
---------	--------------

Value

named list with three elements, "Hitting", "Pitching" and "Fielding". Each contains a dataframe of the box scores for that game

Examples

```
try(ncaa_softball_playerbox(2377042))
```

ncaa_softball_rankings
<i>Get NCAA Softball Team Rankings</i>

Description

Get NCAA Softball Team Rankings

Usage

ncaa_softball_rankings(source)

Arguments

source Source options: RPI, D1Softball, USA Today, or Massey

Value

data frame of rankings, format changes based on source

Author(s)

Tyson King

Examples

```
try(ncaa_softball_rankings("RPI"))
```

ncaa_softball_rosters	<i>Get all NCAA Softball rosters for a given seaosn and division</i>
-----------------------	--

Description

Get all NCAA Softball rosters for a given seaosn and division

Usage

ncaa_softball_rosters(season, division)

Arguments

season 2012 onward (every season with a stats.ncaa.org roster id, see softballR:::ncaa_softball_roster_id)

division "D1", "D2", or "D3"

Value

dataframe of every player on every team in a given season/division

Examples

```
try(ncaa_softball_rosters(2023, "D1"))
```

```
ncaa_softball_scoreboard
```

Get all NCAA softball scores for a given day

Description

Supports 2017-2024 for D1 and only 2023 for D2 and D3

Usage

```
ncaa_softball_scoreboard(date, division = "D1")
```

Arguments

date	"YYYY-MM-DD"
division	"D1", "D2", or "D3"

Value

data frame of date, team names and their scores

Author(s)

Tyson King

Examples

```
date = "2022-03-05"  
try(ncaa_softball_scoreboard(date))
```

```
ncaa_softball_season_pbp
```

Get NCAA play-by-play data for an entire season

Description

only has D1 data for now

Usage

```
ncaa_softball_season_pbp(team_id)
```

Arguments

`team_id` get this from `ncaa_teams` function

Value

dataframe of every play from team's season

Examples

```
try(ncaa_softball_season_pbp(549186))
```

`ncaa_softball_season_playerbox`

Get all box scores for a team's entire season (pitching, hitting, and fielding)

Description

only has data for 2021, 2022, and 2023 and only has D1 for now

Usage

```
ncaa_softball_season_playerbox(team_id)
```

Arguments

`team_id` get team ids from `get_ncaa_teams` function

Value

named list with three elements, "Hitting", "Pitching" and "Fielding". Each contains a dataframe of every box score for that team's season

Examples

```
try(ncaa_softball_season_playerbox(549186))
```

ncaa_softball_season_scoreboard	<i>Get all NCAA softball scores for a given season</i>
---------------------------------	--

Description

Provides the score and some other info for all D1, D2, and D3 games from 2016-2023 (for now)

Usage

```
ncaa_softball_season_scoreboard(season, division = "D1")
```

Arguments

season	YYYY 2016-2023
division	"D1", "D2", or "D3"

Value

data frame of date, team names and their scores

Examples

```
season = "2024"  
try(ncaa_softball_season_scoreboard(season))
```

ncaa_softball_teams	<i>Get all NCAA softball team names and ids</i>
---------------------	---

Description

2021-2023 for D1, only 2023 for D2 and D3

Usage

```
ncaa_softball_teams(season, division = "D1")
```

Arguments

season	2021, 2022 2023, or 2024
division	"D1", "D2", or "D3"

Value

data frame of date, team names and their scores

Author(s)

Tyson King

Examples

```
try(ncaa_softball_teams(2024))
```

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