Package 'usportsR'

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Title Access U SPORTS Data

Version 1.0.0

Description Tools package to extract and analyze data from U SPORTS, the governing body of university sport in Canada.

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Imports dplyr, magrittr, tibble

Encoding UTF-8

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URL https://github.com/uwaggs/usportsR,

https://uwaggs.github.io/usportsR/

BugReports https://github.com/uwaggs/usportsR/issues

Suggests testthat (>= 3.0.0)

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basketball_pbp	*Get U SPORTS basketball play by play data*

Description

Get U SPORTS basketball play by play data

Usage

```
basketball_pbp(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest.

Value

Column Name	Type
time	chr
away	chr
away_score	int
home_score	int
home	chr
quarter	chr
game_id	chr
away_team	chr
home_team	chr
season	chr
season_type	chr

Examples

```
try(basketball_pbp("m",2018))
```

---

basketball_player_box_score
> *Get U SPORTS basketball player box scores*

Description

Get U SPORTS basketball player box scores

Usage

```
basketball_player_box_score(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
player	chr
min	int
fgm	int
fga	int
three_pm	int
three_pa	int
ftm	int
fta	int
oreb	int
dreb	int
reb	int
ast	int
stl	int
blk	int
to	int
pf	int
pts	int
starter	int
player_number	int
player_links	chr
date	chr
game_id	chr
team_name	chr
season	chr
season_type	chr

Examples

```
try(basketball_player_box_score("m",2018))
```

---

basketball_schedule   *Get U SPORTS basketball schedule*

Description

Get U SPORTS basketball schedule

Usage

```
basketball_schedule(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

Column Name	Type
league	chr
season	chr
game_id	chr
date	Date
exhibition	lgl
home_team	chr
away_team	chr
home_score	int
away_score	int
game_url	chr

Examples

```
try(basketball_schedule("m"))
```

---

basketball_team_box_score

Get U SPORTS basketball team box scores

Description

Get U SPORTS basketball team box scores

Usage

```
basketball_team_box_score(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
field_goals_made	int
field_goals_attempted	int
field_goal_percentage	chr
three_point_field_goals_made	int
three_point_field_goals_attempted	int
three_point_field_goal_percentage	chr
free_throws_made	int
free_throws_attempted	int
free_throw_percentage	chr
rebounds	int
assists	int
turnovers	int
points_off_turnovers	int
second_chance_points	int
points_in_the_paint	int
fastbreak_points	int
bench_points	int
largest_lead	int
trends	chr
team_name	chr
game_id	chr
date	chr
q1	int
q2	int
q3	int
q4	int

total	int
time_of_largest_lead	chr
ot	int
x2ot	int
x3ot	int
season	chr
season_type	chr

Examples

```
try(basketball_team_box_score("m",2018))
```

---

field_hockey_pbp   *Get U SPORTS field hockey pbp*

Description

Get U SPORTS field hockey pbp

Usage

```
field_hockey_pbp(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
time	chr
event	chr
quarters	int
game_id	chr
season	chr
season_type	chr

Examples

```
try(field_hockey_pbp(2018))
```

---

field_hockey_player_box_score

Get U SPORTS field hockey player box scores

Description

Get U SPORTS field hockey player box scores

Usage

```
field_hockey_player_box_score(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
player	chr
team	chr
sh	int
sog	int
g	int
a	int
ds	int
min	int
yellow_card	int
red_card	int
game_id	chr
sog_against	int
ga	int
sv	int
goalie_mins	chr
game_date	chr
season	chr
season_type	chr

Examples

```
try(field_hockey_player_box_score(2018))
```

field_hockey_schedule *Get U SPORTS field hockey schedule*

Description

Get U SPORTS field hockey schedule

Usage

```
field_hockey_schedule()
```

Value

Column Name	Type
date	chr
away	chr
away_score	int
home	chr
home_score	int
status	chr
notes	chr
month	chr
box_scores	chr
conference	int
division	int
exhibition	int
post_season	int
season	chr

Examples

```
try(field_hockey_schedule())
```

field_hockey_team_box_score
Get U SPORTS field hockey team box scores

Description

Get U SPORTS field hockey team box scores

Usage

```
field_hockey_team_box_score(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
player	chr
team	chr
sh	int
sog	int
g	int
a	int
ds	int
min	int
yellow_card	int
red_card	int
game_id	chr
sog_against	int
ga	int
sv	int
goalie_mins	chr
game_date	chr
season	chr
season_type	chr

Examples

```
try(field_hockey_team_box_score(2018))
```

---

football_defence   *Get U SPORTS football defence stats*

Description

Get U SPORTS football defence stats

Usage

```
football_defence(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
number	chr
player	chr
solo	int
ast	int
total	dbl
sacks	dbl
sacks_yds	int
tfl	dbl
tfl_yds	int
ff	int
fr	int
fr_yds	int
int	int
int_yds	int
br_up	int
blks	int
qbh	int
team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_defence(2018))
```

---

football_drive_summaries

Get U SPORTS football drive summaries

Description

Get U SPORTS football drive summaries

Usage

```
football_drive_summaries(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
team	chr
qtr	chr
start	chr
poss	chr
began	chr
plays	int
yards	int
result	chr
away_team	chr
home_team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_drive_summaries(2018))
```

---

football_kicking   *Get U SPORTS football kicking stats*

Description

Get U SPORTS football kicking stats

Usage

```
football_kicking(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
player	chr
punting_no	int
punting_yds	int
punting_avg	dbl
punting_lg	int
punting_tb	int
in_20	int
kicking_fga	int
kicking_fgm	int
kicking_lg	int
kicking_xpa	int
kicking_xpm	int
kicking_rg	int
kicking_pts	int
kickoffs_no	int
kickoffs_yds	int
kickoffs_avg	dbl
kickoffs_tb	int
kickoffs_ob	int
team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_kicking(2018))
```

---

football_offence	*Get U SPORTS football offence stats*

Description

Get U SPORTS football offence stats

Usage

```
football_offence(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
player	chr
c_a	chr
passing_yds	int
passing_lg	int
passing_td	int
passing_int	int
rtg	lgl
rushing_att	int
rushing_yds	int
rushing_avg	dbl
rushing_lg	int
rushing_td	int
receiving_no	int
receiving_yds	int
receiving_avg	dbl
receiving_lg	int
receiving_td	int
fumble_no	int
fumble_lost	int
team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_offence(2018))
```

---

football_pbp   *Get U SPORTS football pbp*

Description

Get U SPORTS football pbp

Usage

```
football_pbp(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
downs	chr
event	chr
quarter	chr
game_id	chr
away_team	chr
home_team	chr
season	chr
season_type	chr

Examples

```
try(football_pbp(2018))
```

---

football_returns   *Get U SPORTS football returns stats*

Description

Get U SPORTS football returns stats

Usage

```
football_returns(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
player	chr
punting_returns_no	int
punting_returns_yds	int
punting_returns_avg	dbl
punting_returns_lg	int
punting_returns_td	int
kickoff_returns_no	int
kickoff_returns_yds	int
kickoff_returns_avg	dbl

kickoff_returns_lg	int
kickoff_returns_td	int
interception_returns_no	int
interception_returns_yds	int
interception_returns_avg	dbl
interception_returns_lg	int
interception_returns_td	int
team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_returns(2018))
```

---

football_schedule   *Get USPORTS football schedule*

Description

Get USPORTS football schedule

Usage

```
football_schedule()
```

Value

Column Name	Type
league	chr
season	chr
game_id	chr
date	Date
exhibition	lgl
home_team	chr
away_team	chr
home_score	int
away_score	int
game_url	chr

Examples

```
try(football_schedule())
```

---

football_scoring_summaries

Get U SPORTS football scoring summaries

Description

Get U SPORTS football scoring summaries

Usage

```
football_scoring_summaries(year = c())
```

Arguments

year   The season(s) of interest.

Value

Column Name	Type
prd	chr
time	chr
scoring_summary	chr
away_score	int
home_score	int
away_team	chr
home_team	chr
game_id	chr
season	chr
season_type	chr

Examples

```
try(football_scoring_summaries(2018))
```

---

hockey_pbp   *Get U SPORTS hockey pbp*

Description

Get U SPORTS hockey pbp

Usage

```
hockey_pbp(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest.

Value

Column Name	Type
event	chr
period	chr
game_id	chr
away_team	chr
home_team	chr
season	chr
season_type	chr

Examples

```
try(hockey_pbp("m",2018))
```

---

hockey_player_box_score

                          Get U SPORTS hockey player box scores

---

Description

Get U SPORTS hockey player box scores

Usage

```
hockey_player_box_score(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
skaters	chr
player_number	chr
pos	chr
g	int
a	int
plus_minus	int
s	int
face_off_won	int
face_off_total	int
pim	int
team	chr
ga	int
goalie_mins	chr
sv	int
shots_against	int
goalie_pim	int
game_id	chr
player_links	chr
season	chr
season_type	chr

Examples

```
try(hockey_player_box_score("m",2018))
```

---

hockey_schedule	*Get U SPORTS hockey schedules*

Description

Get U SPORTS hockey schedules

Usage

```
hockey_schedule(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

Column Name	Type
league	chr
season	chr
game_id	chr
date	Date
exhibition	lgl
home_team	chr
away_team	chr
home_score	int
away_score	int
game_url	chr

Examples

```
try(hockey_schedule("m"))
```

---

hockey_team_box_score   *Get U SPORTS hockey team box scores*

Description

Get U SPORTS hockey team box scores

Usage

```
hockey_team_box_score(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest.

Value

Column Name	Type
team	chr
goals_p1	int
goals_p2	int
goals_p3	int
goals_pot	int
goals_p2ot	int
goals_p3ot	int
goals_p4ot	lgl
goals_total	int
shots_1	int
shots_2	int
shots_3	int
shots_total	int
shots_ot	int
shots_2ot	int
shots_3ot	int
shots_4ot	lgl
game_id	chr
season	chr
season_type	chr

Examples

```
try(hockey_team_box_score("m",2018))
```

---

read_csv   *reads a csv from a url with a csv*

Description

reads a csv from a url with a csv

Usage

```
read_csv(file_url)
```

Arguments

file_url   A URL to a CSV file.

Value

A data frame with the first few rows of the CSV file.

---

rugby_schedule *Get U SPORTS rugby schedule*

Description

Get U SPORTS rugby schedule

Usage

```
rugby_schedule(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

A tibble.

Examples

```
try(rugby_schedule("m"))
try(rugby_schedule("w"))
```

---

soccer_pbp *Get U SPORTS soccer play by play data*

Description

Get U SPORTS soccer play by play data

Usage

```
soccer_pbp(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest.

Value

Column Name	Type
X	int
time	chr
event	chr
game_id	chr
away	chr
home	chr
season	chr
season_type	chr

Examples

```
try(soccer_pbp("m",2018))
```

---

soccer_player_box_score

Get U SPORTS soccer player box score data

Description

Get U SPORTS soccer player box score data

Usage

```
soccer_player_box_score(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
X	int
player	chr
sh	int
sog	int
g	int
a	int
min	int

yellow_card	int
red_card	int
player_links	chr
game_id	chr
sog_against	int
ga	int
sv	int
game_date	chr
season	chr
season_type	chr

Examples

```
try(soccer_player_box_score("m",2018))
```

---

soccer_schedule   *Get U SPORTS soccer schedule*

Description

Get U SPORTS soccer schedule

Usage

```
soccer_schedule(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

Column Name	Type
league	chr
season	chr
game_id	chr
date	Date
exhibition	lgl
home_team	chr
away_team	chr
home_score	int
away_score	int
game_url	chr

Examples

```
try(soccer_schedule("m"))
```

---

soccer_team_box_score   *Get U SPORTS soccer team box score data*

Description

Get U SPORTS soccer team box score data

Usage

```
soccer_team_box_score(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest.

Value

Column Name	Type
X	int
team	chr
goals_1	int
goals_2	int
goals_total	int
shots_1	int
shots_2	int
shots_total	int
saves_1	int
saves_2	int
saves_total	int
fouls_1	int
fouls_2	int
fouls_total	int
corners_1	int
corners_2	int
corners_total	int
game_date	lgl
game_id	chr

goals_ot	int
goals_2ot	int
shots_ot	int
shots_2ot	int
saves_ot	int
saves_2ot	int
fouls_ot	int
fouls_2ot	int
corners_ot	int
corners_2ot	int
season	chr
season_type	chr

Examples

```
try(soccer_team_box_score("m",2018))
```

---

swimming_athlete_rankings

Get U SPORTS swimming athletes rankings

Description

Get U SPORTS swimming athletes rankings

Usage

```
swimming_athlete_rankings()
```

Value

Column Name	Type
Season	chr
Gender	chr
Rank	int
Athlete.University	chr
Age	chr
Team	chr
Conference	chr
Date	chr
Meet	chr
Time	chr
FINA	int

Event	chr
Date.Collected	chr

Examples

```
try(swimming_athlete_rankings())
```

---

swimming_team_rankings

Get U SPORTS swimming team rankings

Description

Get U SPORTS swimming team rankings

Usage

```
swimming_team_rankings()
```

Value

Column Name	Type
Rank	int
Team	chr
Count	int
Gender	chr
Date	chr

Examples

```
try(swimming_team_rankings())
```

---

tnf_athlete_rankings *Get U SPORTS track and field athlete rankings*

Description

Get U SPORTS track and field athlete rankings

Usage

```
tnf_athlete_rankings()
```

Value

A tibble.

Examples

```
try(tnf_athlete_rankings())
```

---

tnf_meet_results *Get U SPORTS track and field meet results*

Description

Get U SPORTS track and field meet results

Usage

```
tnf_meet_results()
```

Value

A tibble.

Examples

```
try(tnf_meet_results())
```

---

tnf_rosters *Get U SPORTS track and field rosters*

Description

Get U SPORTS track and field rosters

Usage

```
tnf_rosters()
```

Value

A tibble.

Examples

```
try(tnf_rosters())
```

---

tnf_team_rankings *Get U SPORTS track and field team rankings*

Description

Get U SPORTS track and field team rankings

Usage

```
tnf_team_rankings()
```

Value

A tibble.

Examples

```
try(tnf_team_rankings())
```

---

tnf_universities   *Get U SPORTS track and field universities*

Description

Get U SPORTS track and field universities

Usage

```
tnf_universities()
```

Value

A tibble.

Examples

```
try(tnf_universities())
```

---

volleyball_pbp   *Get U SPORTS volleyball play by play data*

Description

Get U SPORTS volleyball play by play data

Usage

```
volleyball_pbp(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
event	chr
home	chr
away	chr
score	chr
set	int
game_id	chr
season	chr

season_type	chr

Examples

```
try(volleyball_pbp("m",2018))
```

---

volleyball_player_box_score

Get U SPORTS volleyball player box scores

Description

Get U SPORTS volleyball player box scores

Usage

```
volleyball_player_box_score(gender, year = c())
```

Arguments

gender	Gender of athletes "m" or "w"
year	The season(s) of interest.

Value

Column Name	Type
player_number	chr
player	chr
sp	chr
k	int
e	int
ta	int
k_percentage	dbl
a	int
sa	int
se	int
re	int
digs	int
bs	int
ba	int
be	int
bhe	int
pts	dbl

team_name	chr
player_links	chr
game_id	chr
date_time	chr
start	lgl
season	chr
season_type	chr

Examples

```
try(volleyball_player_box_score("m",2018))
```

---

volleyball_schedule   *Get U SPORTS volleyball schedule*

Description

Get U SPORTS volleyball schedule

Usage

```
volleyball_schedule(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

Column Name	Type
league	chr
season	chr
game_id	chr
date	Date
exhibition	lgl
home_team	chr
away_team	chr
home_score	int
away_score	int
game_url	chr

Examples

```
try(volleyball_schedule("m"))
```

```
volleyball_team_box_score
```
Get U SPORTS volleyball team box scores

Description

Get U SPORTS volleyball team box scores

Usage

```
volleyball_team_box_score(gender, year = c())
```

Arguments

gender   Gender of athletes "m" or "w"

year   The season(s) of interest

Value

Column Name	Type
set	int
k	int
e	int
ta	int
pct	dbl
team_name	chr
game_id	chr
date_time	chr
points	int
season	chr
season_type	chr

Examples

```
try(volleyball_team_box_score("m",2018))
```

---

wrestling_athlete_rankings

Get U SPORTS wrestling athletes rankings

Description

Get U SPORTS wrestling athletes rankings

Usage

```
wrestling_athlete_rankings(gender, weight)
```

Arguments

gender   Gender of athletes "m" or "w"

weight   weight class

Value

A tibble.

Examples

```
try(wrestling_athlete_rankings("m",90))
try(wrestling_athlete_rankings("w",54))
```

---

wrestling_team_rankings

Get U SPORTS wrestling team rankings

Description

Get U SPORTS wrestling team rankings

Usage

```
wrestling_team_rankings(gender)
```

Arguments

gender   Gender of athletes "m" or "w"

Value

A tibble.

Examples

```
try(wrestling_team_rankings("m"))
try(wrestling_team_rankings("w"))
```

---

xc_meet_results   *Get U SPORTS XC meet results*

Description

Get U SPORTS XC meet results

Usage

```
xc_meet_results()
```

Value

A tibble.

Examples

```
try(xc_meet_results())
```

---

xc_rosters   *Get U SPORTS XC Rosters*

Description

Get U SPORTS XC Rosters

Usage

```
xc_rosters()
```

Value

A tibble.

Examples

```
try(xc_rosters())
```

---

xc_team_rankings *Get U SPORTS XC Team Rankings*

Description

Get U SPORTS XC Team Rankings

Usage

```
xc_team_rankings()
```

Value

A tibble.

Examples

```
try(xc_team_rankings())
```

---

xc_universities *Get U SPORTS XC Teams*

Description

Get U SPORTS XC Teams

Usage

```
xc_universities()
```

Value

A tibble.

Examples

```
try(xc_universities())
```

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