Package ‘volleystat’

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Title Detailed Statistics on Volleyball Matches
Version 0.2.0
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Description
Volleyball match statistics of the German volleyball first division league (seasons 2013/2014 to 2018/2019). The data has been collected from the official volleyball first division homepage (<www.volleyball-bundesliga.de>) and contains information on teams, staff, sets, matches, and player-in-match statistics (extracted automatically from the official match reports).

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BugReports https://github.com/bozhinvi/volleystat/issues
License CC0
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R topics documented:
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Description

A dataset containing all matches of the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019. Note that all matches are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

Usage

matches

Format

Data frame with 3392 rows and 12 columns.

- **league_gender**: Men or women’s league.
- **season_id**: ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
- **competition_stage**: Stage of the competition, i.e., main round or play-offs.
- **match_id**: Official VBL match id. Unique within seasons.
- **match**: Factor variable identifying whether observation is from the home team’s perspective or from the away team’s perspective.
- **match_day**: Match day (only main round, see competition_stage).
- **date_time**: POSIXct date-time variable of the match.
- **spectators**: Number of spectators in the gym.
- **match_duration**: Length of match in minutes.
- **team_id**: Team identifier which is unique across all teams and seasons.
- **team_name**: Official name of the team. Note that VCO Berlin has a team in men’s and women’s league.
- **set_won**: Number of sets won by the team.

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml
matchstats

Examples

matchstats

matchstats  Matchstats data

Description

A dataset containing match-player level statistics of the German first division volleyball league for each match and each season starting in 2013/2014 and ending in 2018/2019.

Usage

matchstats

Format

Data frame with 32755 rows and 23 columns.

league_gender  Men or women’s league.
season_id  ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
match_id  Official VBL match id. Unique within seasons.
team_id  Team identifier which is unique across all teams and seasons.
player_id  Player identifier which is unique within a team in a season. This identifier equals to the shirt number of the player. However, in cases where more than one player has the same shirt number, the identifier is replaced by a 3-digit number starting at 100.
shirt_number  Official shirt number, not unique within teams (see player_id).
vote  Score computed according to the DataVolley settings. NA if not reported as numeric in the match report.
pt_tot  Total points scored.
pt_bp  Total break points scored.
pt_profloss  Won minus lost points. More precisely, this variable is computed according to the following equation: serv_pt + att_pt + blo_pt - serv_err - rec_err - att_err - att_blo.
serv_tot  Total number of serves.
ser_err  Number of serving errors.
serv_pt  Number of scored points at service, e.g., aces.
rec_tot  Number of receptions.
rec_err  Number of errors in reception.
rec_pos  Share of positive receptions.
rec_per  Share of perfect receptions.
att_tot  Number of total attacks.
att_err  Number of failed attacks.
att_blo  Number of blocked attacks.
att_pt  Number of successful attacks.
att_per  Share of successful attacks.
blo_pt  Number of successful blocks.

Source
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

Examples
matchstats

<table>
<thead>
<tr>
<th>match_adresses</th>
<th>Match addresses data</th>
</tr>
</thead>
</table>

Description
A dataset containing name, adress, and coordinates of the gym of each match in the German first division volleyball league between 2013/2014 and ending in 2018/2019.

Usage
match_adresses

Format
Data frame with 1718 rows and 6 columns.

league_gender  Men or women’s league.
season_id  ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
match_id  Official VBL match id. Unique within seasons.
gym  Official name of arena.
adress  ZIP code and city.
lon  Longitude of arena.
lat  Latitude of arena.

Source
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_clubsspieler/1blf_spielhallen.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_clubsspieler/1blm_spielhallen.xhtml
**Description**

A dataset containing attributes of all players in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

**Usage**

players

**Format**

Data frame with 1853 rows and 13 columns.

- **league_gender**: Men or women’s league.
- **season_id**: ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
- **team_id**: Team identifier which is unique across all teams and seasons.
- **team_name**: Official name of the team. Note that VCO Berlin has a team in men’s and women’s league.
- **player_id**: Player identifier which is unique within a team in a season. This identifier equals to the shirt number of the player. However, in cases where more than one player has the same shirt number, the identifier is replaced by a 3-digit number starting at 100.
- **shirt_number**: Official shirt number, not unique within teams (see player_id).
- **position**: Player’s specialization
- **firstname**: First name of the player
- **lastname**: Last name of the player
- **gender**: Player’s gender: male or female.
- **birthdate**: Date of birth
- **height**: Height in cm
- **nationality**: Nationality of player

**Source**

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

**Examples**

players
Description

A dataset containing all matches of the German first division volleyball league for each season on set level, starting in 2013/2014 and ending in 2018/2019. Note that all sets are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

Usage

sets

Format

Data frame with 12660 rows and 9 columns.

league_gender  Men or women’s league.
season_id  ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
match_id  Official VBL match id. Unique within seasons.
match  Factor variable identifying whether observation is from the home team’s perspective or from the away team’s perspective.
team_id  Team identifier which is unique across all teams and seasons.
team_name  Official name of the team. Note that VCO Berlin has a team in men’s and women’s league.
set  Set identifier.
set_duration  Length of set in minutes.
pt_set  Points scored in set.

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

Examples

matchstats
Team staff data

Description
A dataset containing attributes of all staff members of teams in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

Usage

Format
A data frame with 1214 rows and 10 variables:

- **league_gender**: Men or women’s league.
- **season_id**: ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
- **team_id**: Team identifier which is unique across all teams and seasons.
- **team_name**: Official name of the team. Note that VCO Berlin has a team in men’s and women’s league.
- **firstname**: First name of the player
- **lastname**: Last name of the player
- **gender**: Player’s gender: male or female.
- **birthdate**: Date of birth
- **position**: Person’s role in the team, e.g., couch, statistician, or assistant couch.
- **nationality**: Nationality of team member.

Source
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

Examples
staff
team_addresses  

Team addresses data

Description

A dataset containing name, address, and coordinates of the home gym of each team in the German first division volleyball league between 2013/2014 and ending in 2018/2019.

Usage

```r
team_addresses
```

Format

Data frame with 137 rows and 8 columns.

- **season_id**  ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.
- **league_gender**  Men or women’s league.
- **team_id**  Team identifier which is unique across all teams and seasons.
- **team_name**  Official name of the team. Note that VCO Berlin has a team in men’s and women’s league.
- **gym_address**  ZIP code and city.
- **max_spectator**  Maximum capacity
- **lon**  Longitude of arena.
- **lat**  Latitude of arena.

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_clubsspieler/1blf_spielhallen.xhtml
https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_clubsspieler/1blm_spielhallen.xhtml

Examples

```r
team_addresses
```
volleystat

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**volleystat**  
*volleystat: Volleyball match statistics*

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**Description**

This package provides data on match statistics of the German volleyball first division league (seasons 2013/2014 to 2018/2019). The data has been collected from the official volleyball first division homepage (www.volleyball-bundesliga.de) and contains information on teams, staff, sets, matches, and player-in-match statistics (extracted automatically using tabulizer from the PDFs of the official match reports).

**players**

A dataset containing attributes of all players in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

**staff**

A dataset containing attributes of all staff members of teams in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

**matches**

A dataset containing all matches of the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019. Note that all matches are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

**sets**

A dataset containing all matches of the German first division volleyball league for each season on set level, starting in 2013/2014 and ending in 2018/2019. Note that all sets are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

**matchstats**

A dataset containing match-player level statistics of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.

**match_addresses**

A dataset containing addresses and coordinates of all matches of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.

**team_addresses**

A dataset containing addresses and coordinates of all teams of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.
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