Package ‘volleystat’

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Title Detailed Statistics on Volleyball Matches
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Maintainer Viktor Bozhinov <mail@viktor-bozhinov.de>
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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License CC0
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Author Viktor Bozhinov [aut, cre]
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matches

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
**Examples**

```r
matchstats
```

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**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**

```r
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.
- `serv_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.

---

**matchstats**
match_adresses

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

match_adresses  Match adresses data

Description

A dataset containing name, address, 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

staff

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
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

team_adresses

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_adress  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

team_adresses
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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