Package 'cbb24'

February 10, 2024

Title What the Package Does (One Line, Title Case)

Version 0.0.1.0000

Description This package contains information about college basketball games
from 2023 in the 2023 - 2024 season with various filtering functions
and plotting functions.

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license

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.0

Suggests knitr,
rmarkdown

VignetteBuilder knitr

Depends R (>= 2.10)

LazyData true

R topics documented:

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    barplot_win_vs_homestatus
                                Gives a quick barplot of number of wins.

Description

This will return a barplot of the number of wins vs traveling status.

Usage

```
barplot_win_vs_homestatus()
```

Value

This function returns a split barplot with the number of games played, split whether those wins were at a home event or away.

Examples

```
## Give a barplot of number of wins with split on traveling or home games
barplot_win_vs_homestatus()
```

---

boxplot_winmargin_vs_homestatus

Gives a quick boxplot of win margin.

Description

This will return a barplot of the number of wins vs traveling status.

Usage

```
boxplot_winmargin_vs_homestatus()
```

Value

This function returns a split boxplot with the margin of a win, split whether those wins were at a home event or away.

Examples

```
## Give a boxplot of win margin with split on traveling or home games
boxplot_winmargin_vs_homestatus()
```

---

cbbga24   *cbbga24*

Description

Set of data containing Date of each game, away team name, away team score, home team name, home team score, and difference between away team and home team score.

Usage

```
cbbga24
```

Format

A data frame with 6 variables: `Date`, `Away`, `A_score`, `Home`, `H_score`, `score_diff`

Source

http://kenpom.com/cbbga24.txt

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cbbga_wins_23 *cbbga_wins_23*

Description

CSV containing team name, number of wins, number of losses, win percentage, number of home games, total number of games played, percentage of games played at home.

Usage

```
cbbga_wins_23
```

Format

A data frame with 7 variables: `team`, `win`, `loss`, `win_percentage`, `home_games`, `total_games`, `home_percentage`

Results_team *Gives specific results for a specified team*

Description

This will calculate the win percentage and percentage of games the specified team played at home with the data set cbbga24

Usage

```
Results_team(team)
```

Arguments

team   This is the desired team to get win and home game percentages

Value

This function returns a list containing the team results and home game percentage.

Examples

```
## Give win and home game percentages for 'Southern Utah'
Results_team('Southern Utah')
```

---

scatterplot_winpercentage_vs_homestatus
                              Gives a quick scatterplot of number of percentage of wins vs percentage of home games.

Description

This will return a scatterplot of the percentage of wins vs percentage of home games, with colors referencing to the total number of games played by each team.

Usage

```
scatterplot_winpercentage_vs_homestatus()
```

Value

This will return a scatterplot of the percentage of wins vs percentage of home games.

Examples

```
## Give a scatterplot of win percentage vs home game percentage with colors referring
to the number of total games played.
barplot_win_vs_homestatus()
```

---

team_filter   *Filter the data set ccbga24 by a specified team*

Description

This will filter the data set ccbga24, returning only games where the specified team competes.

Usage

```
team_filter(team)
```

Arguments

team   This is the desired team to filter

Value

This function returns a tible with just games played by the specified team

Examples

```
## Filter for 'Southern Utah'
team_filter('Southern Utah')
```

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