Package ‘topChef’

June 21, 2023

Type Package
Title Top Chef Data
Version 0.1.0
Description Several datasets which describe the chef contestants in Top Chef, the challenges that they compete in, and the results of those challenges. This data is useful for practicing data wrangling, graphing, and analyzing how each season of Top Chef played out.

URL https://github.com/celevitz/topChef

BugReports https://github.com/celevitz/topChef/issues

Depends R (>= 4.2.0)
Imports tidyrr (>= 1.3.0), dplyr (>= 1.1.0)
License MIT + file LICENSE
Encoding UTF-8
LazyData true
RoxygenNote 7.2.3
Suggests knitr, rmarkdown, testthat (>= 3.0.0), gt (>= 0.9.0), magrittr (>= 2.0.0), ggplot2 (>= 3.4.0)

Config/testthat/edition 3
VignetteBuilder knitr

Language en-US

NeedsCompilation no
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Repository CRAN
Date/Publication 2023-06-21 09:10:02 UTC
challengedescritpions

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\begin{verbatim}
challengedescritpions  challengedescritpions
\end{verbatim}

\section*{Description}

A dataset containing information about each challenge that the Chefs compete in

\section*{Usage}

\begin{verbatim}
data(challengedescritpions)
\end{verbatim}

\section*{Format}

This data frame contains the following columns:

- `season` Name of season
- `seasonNumber` Season number
- `series` Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada (listed as Canada)
- `episode` Episode number
- `challengeType` Challenge type: qualifying challenge, elimination, quickfire, sudden death quickfire, quickfire elimination, battle of the sous chefs
- `outcomeType` Is the challenge run as a team or as an individual?
- `challengeDescription` Description of the challenge
- `shopTime` If they go shopping, how long do they have? Unit is minutes
- `shopBudget` If they go shopping, what is their budget? Unit is dollars unless otherwise specified.
- `prepTime` If they have prep time, how long do they have? Unit is minutes
- `cookTime` How long they have to cook (in minutes)
- `productPlacement` List of products promoted in the challenge, other than the usual series-wide product placement. Will be blank if none were mentioned
- `advantage` If an advantage is offered to the winner of the challenge, it will be listed here: e.g., Immunity, choosing a protein in the elimination challenge, choosing your team in the elimination challenge. Will be blank if none were mentioned.
lastChanceKitchenWinnerEnters If someone comes in from Last Chance Kitchen at this challenge, their name will be listed here. Will be blank for all other challenges.

restaurantWarWinner Role played by the winner of restaurant wars: Executive Chef, Front of House, the full team, Line Cook, Roles Rotated, or No one won. Will only have values for Restaurant War episodes.

restaurantWarEliminated Role played by the Chef eliminated after restaurant wars: Executive Chef, Front of House, the full team, Line Cook, Roles Rotated. Will only have values for Restaurant War episodes.

didJudgesVisitWinningTeamFirst Categorical variable of which team was shown serving the judges first. Will only have values for Restaurant Wars episodes.

Source

https://en.wikipedia.org/wiki/Top_Chef

Examples

```r
library(dplyr)
library(tidyr)
challengedescions %>%
  group_by(series,season,outcomeType) %>%
  summarise(n=n()) %>%
  pivot_wider(names_from=outcomeType,values_from=n)
```

```r
---

challengewins

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
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</table>

Description

A dataset containing win and loss data for each chef in each episode

Usage

data(challengewins)

Format

This data frame contains the following columns:

- **season**  Name of season
- **seasonNumber**  Season number
- **series**  Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada (listed as Canada)
- **episode**  Episode number
- **inCompetition**  True / false for whether the Chef was still in the competition at the time of the challenge
chef  Name of chef
challengeType  Challenge type: qualifying challenge, elimination, quickfire, sudden death quickfire, quickfire elimination, battle of the sous chefs
outcome  Result for each Chef in the competition for that challenge
rating  Numeric rating provided to chefs in Top Chef US Masters Seasons 1 and 2. Will be blank for all other seasons.

Source

https://en.wikipedia.org/wiki/Top_Chef

Examples

library(dplyr)
library(tidyr)
challengewins %>%
group_by(outcome) %>%
summarise(n=n())

chefdetails  chefdetails

Description

A dataset containing information on each Chef for each season. As of now, it has data for all Top Chef US seasons, Top Chef Masters (US), and one season of Top Chef Canada.

Usage

data(chefdetails)

Format

This data frame contains the following columns:

name  Chef name (full name)
chef  Shorter version of the chef’s name
hometown  Chef’s hometown, if known
city  City in which the Chef lived at the time of show
state  State in which the Chef lived at the time of the show
age  Age of Chef at the time of the show
season  Name of season
seasonNumber  Season number
series  Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada (listed as Canada)
episodeinfo

placement  Final result of the Chef.
personOfColor  Flag for whether the Chef is a person of color. Will be blank if they are not
occupation  Occupation of Chef at time of show, if known
gender  Gender of Chef

Source

https://en.wikipedia.org/wiki/Top_Chef

Examples

library(dplyr)
library(tidyr)
chefdetails %>%
  filter(season == "World All Stars")

Description

A dataset containing information about each episode

Usage

data(episodeinfo)

Format

This data frame contains the following columns:

season  Name of season
seasonNumber  Season number
series  Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada
  (listed as Canada)
overallEpisodeNumber  Running number of episode within the series
episode  Episode number
episodeName  Name of episode
airDate  Date the episode originally aired
nCompetitors  Number of Chefs still in the competition

Source

https://en.wikipedia.org/wiki/Top_Chef
**Examples**

```r
library(dplyr)
library(tidyr)
episodeinfo %>% filter(season=="World All Stars")
```

---

**Description**

A dataset containing information about who were the guest judges for each challenge

**Usage**

```r
data(judges)
```

**Format**

This data frame contains the following columns:

- **season**  Name of season
- **seasonNumber**  Season number
- **series**  Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada (listed as Canada)
- **episode**  Episode number
- **challengeType**  Challenge type: qualifying challenge, elimination, quickfire, sudden death quickfire, quickfire elimination, battle of the sous chefs
- **outcomeType**  Is the challenge run as a team or as an individual?
- **guestJudge**  Name of guest judge
- **competedOnTC**  Will have a value of Yes if they competed on a season of Top Chef
- **otherShows**  Information about other shows that this individual has appeared on

**Source**

https://en.wikipedia.org/wiki/Top_Chef

**Examples**

```r
library(dplyr)
library(tidyr)
judges %>%
  filter(guestJudge == "Eric Ripert") %>%
  group_by(challengeType) %>%
  summarise(n=n())
```
**Description**

A dataset containing information about rewards and prizes won by challenge

**Usage**

data(rewards)

**Format**

This data frame contains the following columns:

- **season**: Name of season
- **seasonNumber**: Season number
- **series**: Top Chef US (listed as US); Top Chef US Masters (listed as US Masters); Top Chef Canada (listed as Canada)
- **episode**: Episode number
- **challengeType**: Challenge type: qualifying challenge, elimination, quickfire, sudden death quickfire, quickfire elimination, battle of the sous chefs
- **outcomeType**: Is the challenge run as a team or as an individual?
- **rewardType**: Variable describing whether the reward is money or a prize
- **reward**: Description of the full reward
- **chef**: Name of chef

**Source**

https://en.wikipedia.org/wiki/Top_Chef

**Examples**

```r
library(dplyr)
library(tidyr)
rewards %>%
  filter(rewardType == "Money") %>%
  mutate(reward=as.numeric(reward)) %>%
  group_by(season) %>%
  summarise(total=sum(reward))
```
weightedindex  

*Calculate One Season’s Chef’s Weighted Scores (Index)*

**Description**

Calculates the Index score for each person within a season of Top Chef.

**Usage**

```r
weightedindex(
  seriesname,
  seasonnumberofchoice,
  numberofelimchalls,
  numberofquickfires
)
```

**Arguments**

- `seriesname` Values can be: US, US Masters, Canada
- `seasonnumberofchoice` Integer of the season number within the series
- `numberofelimchalls` Number of elimination challenges you want to include in the index
- `numberofquickfires` Number of quickfire challenges you want to include in the index

**Details**

The result of elimination challenges and quickfire challenges are weighted. Scoring: Elimination win = +7 points. Elimination high = +3 points. Elimination low = -3 points. Eliminated = -7 points. Quickfire win = +4 points. Quickfire high = +2 points. Quickfire low = -2 points. Combines Sudden Death Quickfires with Eliminations Excludes Qualifying Challenges Holding constant the number of elimination challenges and quickfire challenges will allow comparison across seasons if you want

**Value**

Tibble of index score for each contestant in that season and their placement
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