Package ‘topChef’

May 8, 2026

Type Package

Title Top Chef Data

Version 0.2.0

Author Levitz Carly E [cre, aut, cph] (ORCID: <https://orcid.org/0000-0003-3094-411X>)

Maintainer Levitz Carly E <celevitz@gmail.com>

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 tidyr (>= 1.3.0), dplyr (>= 1.1.0)

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Encoding UTF-8

LazyData true

RoxygenNote 7.3.1

Suggests knitr, rmarkdown, testthat (>= 3.0.0), magrittr (>= 2.0.0), ggplot2 (>= 3.4.0)

Config/testthat/edition 3

VignetteBuilder knitr

Language en-US

NeedsCompilation no

Repository CRAN

Date/Publication 2024-06-21 05:20:02 UTC

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`challengedescriptions` *challengedescriptions*

Description

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

Usage

```
data(challengedescriptions)
```

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

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

`challengewins` *challengewins*

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

`immune` True / false for whether that Chef was immune from being eliminated for 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)

`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

`occupation_category` Categorization of occupation

`gender` Gender of Chef

Source

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

Examples

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

`episodeinfo` *episodeinfo*

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

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

---

judges *judges*

Description

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

Usage

```
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

`gender` Gender of Chef

`personOfColor` Flag for whether the Chef is a person of color. Will be blank if they are not

`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

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

---

rewards *rewards*

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

```
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

```
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. Must be greater than 0

`numberofquickfires` Number of quickfire challenges you want to include in the index. Must be greater than 0.

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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