Package 'bakeoff'

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Title Data from ``The Great British Bake Off''

Description Data about the bakers, challenges, and ratings
for ``The Great British Bake Off'',
from Wikipedia <https://en.wikipedia.org/wiki/The_Great_British_Bake_Off>.

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URL https://bakeoff.netlify.app/, https://github.com/apreshill/bakeoff

BugReports https://github.com/apreshill/bakeoff/issues

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R topics documented:

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bakeoff_colors   *Extract named* **bakeoff** *colors as hex codes*

Description

Get a vector of hexadecimal color codes, or, extract a subset of colors as a using defined color names
(available using `names(bakeoff_colors())`).

Usage

```
bakeoff_colors(...)
```

Arguments

`...`	Character names of **bakeoff** colors. If none are specified, returns all. If any are specified, they can be listed by names in quotes (no need to combine with `c()`).

Value

A named character vector of hex colors.

Examples

```
bakeoff_colors()
bakeoff_colors("riptide")
bakeoff_colors("baltic", "yellow")
names(bakeoff_colors())

if (require('scales')) {
  scales::show_col(bakeoff_colors(), label = FALSE)
}
```

---

bakeoff_palette   *A* **bakeoff** *palette generator*

Description

A **bakeoff** palette generator

Usage

```
bakeoff_palette(
  palette = "showstopper",
  n,
  direction = 1,
  type = c("discrete", "continuous")
)
```

Arguments

palette	Name of desired palette. Can be either "showstopper" (the default), "signature", and "finale" (accessible through bakeoff_palette_names()).
n	Number of colors desired. All palettes have 10 colors, matching the total number of series and maximum number of episodes per series. If omitted, **bakeoff** uses all colors.
direction	Either 1 or -1. If -1, the palette will be reversed.
type	Either "continuous" or "discrete". Use continuous if you want to automatically interpolate between colors.

Value

A vector of colors.

Examples

```
bakeoff_palette("showstopper")

if (require('scales')) {
  show_col(bakeoff_palette("finale"))
 }

if (require('ggplot2')) {
line_plot <- ggplot(ratings, aes(x = episode, y = viewers_7day,
color = as.factor(series), group = series)) + facet_wrap(~series) + geom_line(lwd = 2)
line_plot + scale_color_manual(values = bakeoff_palette(), guide = "none")

ggplot(episodes, aes(episode, bakers_appeared, fill = as.factor(series))) +
geom_col() + facet_wrap(~series) +
scale_fill_manual(values = bakeoff_palette("signature"), guide = "none") +
scale_x_continuous(breaks = scales::pretty_breaks())
```

```
}

# If you need more colors than normally found in a palette, you
# can use a continuous palette to interpolate between existing
# colours
pal <- bakeoff_palette(palette = "finale", n = 20, type = "continuous")
if (require('scales')) {
show_col(pal)
}
```

---

bakeoff_palette_names   *Print names of all* **bakeoff** *color palettes*

Description

Print names of all **bakeoff** color palettes

Usage

```
bakeoff_palette_names()
```

Value

A character vector of color palette names.

Examples

```
bakeoff_palette_names()
```

---

bakers   *Bakers*

Description

Information about each baker and their performance during the series they appeared on.

Usage

```
bakers
```

Format

A data frame with 120 rows representing individual bakers and 24 variables:

series An integer denoting UK series (1-10).

baker_full A character string giving full name.

baker A character string giving given or nickname.

age An integer denoting age in years at first episode appeared.

occupation A character string giving occupation.

hometown A character string giving hometown.

baker_last A character string giving family name.

baker_first A character string giving given name.

star_baker An integer denoting the number of times a given baker won Star Baker.

technical_winner An integer denoting the number of times a given baker won first place in the technical challenge.

technical_top3 An integer denoting the number of times a given baker was in the top 3 (1st, 2nd, or 3rd) on the technical challenge.

technical_bottom An integer denoting the number of times a given baker was in the bottom 3 on the technical challenge.

technical_highest An integer denoting the best technical rank earned by a given baker across all episodes appeared (higher is better).

technical_lowest An integer denoting the worst technical rank earned by a given baker across all episodes appeared (higher is better).

technical_median An integer denoting the median technical rank earned by a given baker across all episodes appeared (higher is better).

series_winner An integer. Is 0 if not the series winner, 1 if series winner.

series_runner_up An integer. Is 0 if not a runner-up, 1 if a runner-up.

total_episodes_appeared An integer denoting the total number of episodes in which a given baker appeared.

first_date_appeared A date denoting original airdate of the first episode in which a given baker appeared (equivalent to the series premiere episode in the UK.)

last_date_appeared A date denoting original airdate of the last episode in which a given baker appeared (in the UK).

first_date_us A date denoting original airdate of the first episode in which a given baker appeared (equivalent to the series premiere episode in the US).

last_date_us A date denoting original airdate of the last episode in which a given baker appeared (in the US).

percent_episodes_appeared A percentage denoting the number of episodes in a given series/season in which a given baker appeared out of all episodes aired in that series/season.

percent_technical_top3 A percentage denoting the number of episodes in which a given baker placed in the top 3 for the technical challenge, out of the number of total episodes that the baker appeared in.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off_(series_1)#The_Bakers,
for example, for Series 1 bakers.

Examples

```
if (require('tibble')) {
  bakers
 }
head(bakers)
```

---

bakers_raw   *Bakers (raw)*

Description

Information about each baker who has appeared on the show.

Usage

```
bakers_raw
```

Format

A data frame with 120 rows representing individual bakers and 8 variables:

series A factor denoting UK series (`1-10`).

baker_full A character string giving full name.

baker A character string with a given name or nickname.

age An integer denoting age in years at first episode appeared.

occupation A character string giving occupation.

hometown A character string giving hometown.

baker_last A character string giving family name.

baker_first A character string giving given name.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off_(series_1)#The_Bakers,
for example, for series 1 bakers.

Examples

```
if (require('tibble')) {
  bakers_raw
 }
head(bakers_raw)
```

---

bakes_raw	*Bakes (raw)*

Description

Bakes for both the signature and showstopper challenges for each baker across all 10 GBBO series.

Usage

```
bakes_raw
```

Format

A data frame with 548 rows representing individual signatures and showstoppers for each baker and 6 variables:

series An integer denoting UK series (1-10).

episode An integer denoting episode number within a series.

baker A character string with a given name or nickname.

signature A character string containing the bake for the signature challenge for that baker/episode.

technical An integer denoting the rank on the technical challenge for that baker/episode. A value of 1 means the baker was the winner of the technical challenge. If NA, the baker did not appear in the episode.

showstopper A character string containing the bake for the showstopper challenge for that baker/episode.

Examples

```
if (require('tibble')) {
  bakes_raw
 }
head(bakes_raw)
```

---

challenges	*Challenges*

Description

Details about the three challenges ("signature", "technical", and "showstopper") for each baker/episode across all GBBO series. Who was eliminated? Who won star baker? In the finale, who won and who was runner up?

Usage

```
challenges
```

Format

A data frame with 1,136 rows representing individual bakers per episode and 7 variables:

series An integer denoting the UK series number (1-10).

episode An integer denoting episode number within a series.

baker A character string with a given name or nickname.

result A character string denoting if the baker was IN, OUT, STAR BAKER, or SICK for a given episode. For finale episodes, values are either WINNER or Runner-up. If NA, the baker did not appear in episode.

signature A character string containing the bake for the signature challenge for that baker/episode. If NA, the baker did not appear in episode.

technical An integer denoting the rank on the technical challenge for that baker/episode. A value of 1 means the baker was the winner of the technical challenge. If NA, the baker did not appear in the episode.

showstopper A character string containing the bake for the showstopper challenge for that baker/episode. If NA, the baker did not appear in episode.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off#Format

Examples

```
if (require('tibble')) {
  challenges
 }
head(challenges)
```

---

episodes	*Episodes*

Description

Each episodes' statistics. This dataset is made by collapsing challenges by series and episode.

Usage

```
episodes
```

Format

A data frame with 94 rows representing individual episodes per series and 10 variables:

series An integer denoting UK series (1-10).

episode An integer denoting episode number within a series.

bakers_appeared an integer denoting the number of bakers who appeared in a given episode.

bakers_out An integer denoting the number of bakers were either eliminated, left at will, or left due to illness in that episode.

bakers_remaining An integer denoting the number of bakers who remained at the end of a given episode.

star_bakers An integer denoting the number of bakers crowned Star Baker in a given episode.

technical_winners An integer denoting the number of bakers who placed first in the technical challenge.

sb_name A character string with the names of the bakers who won Star Baker in a given episode, separated by commas.

winner_name A character string with the name of the series winner. Only present for final episodes within each series.

eliminated A character string with the name of the bakers who left a given episode, separated by commas.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off#Format

Examples

```
if (require('tibble')) {
  episodes
 }
head(episodes)
```

---

episodes_raw   *Each episodes' challenges (raw)*

Description

Details about the three challenges (signature, technical, and showstopper) for each baker/episode across all 10 GBBO series.

Usage

```
episodes_raw
```

Format

A data frame with 704 rows representing individual bakers per episode and 6 variables:

series A factor denoting UK series (1-10).

episode A factor denoting episode number within a series.

baker A character string giving given or nickname.

signature A character string containing the bake for the signature challenge for that baker/episode.

technical An integer denoting the rank on the technical challenge for that baker/episode. A rank of 1 is winner of the technical challenge.

showstopper A character string containing the bake for the showstopper challenge for that baker/episode.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off#Format

Examples

```
if (require('tibble')) {
  episodes_raw
 }
head(episodes_raw)
```

---

ratings *Ratings*

Description

This dataset has one row per episode and includes ratings plus original airdates in the UK (by series) and US (by season). This dataset is made by joining the `ratings_raw` and `seasons_raw` datasets by both `series` and `episode`.

Usage

```
ratings
```

Format

A data frame with 94 rows representing individual episodes and 11 variables:

series An integer denoting UK series (1-10).

episode An integer denoting episode number within a series.

episode_count An integer denoting continuous episode number across series (1-94)

uk_airdate A date denoting original airdate of episode in the UK.

viewers_7day The number of viewers in millions within a 7-day window from airdate.

viewers_28day The number of viewers in millions within a 28-day window from airdate.

network_rank An integer denoting the episode's weekly ranking within network (note that the networks changed for series 8 and later).

channels_rank An integer denoting the episode's weekly ranking across all channels.

bbc_iplayer_requests Number of BBC iPlayer requests (note: not available for all series, and only for series that aired on the BBC).

us_season An integer denoting US season (1-5).

us_airdate A date denoting original airdate of episode in the US, according to pbs.org.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off_(series_1)#Ratings

Examples

```
if (require('tibble')) {
  ratings
 }
head(ratings)
```

---

ratings_raw	*Each episode's ratings (raw)*

Description

Ratings for all episodes across all 10 GBBO series.

Usage

```
ratings_raw
```

Format

A data frame with 94 rows representing individual episodes and 9 variables:

series a factor denoting UK series (1-10).

episode a factor denoting episode number within a series.

uk_airdate a date denoting original airdate of episode in the UK.

viewers_7day number of viewers in millions within a 7-day window from airdate.

viewers_28day number of viewers in millions within a 28-day window from airdate.

network_rank an integer denoting the episode's weekly ranking within network (note that the networks changed for series 8 and later).

channels_rank an integer denoting the episode's weekly ranking across all channels.

bbc_iplayer_requests number of BBC iPlayer requests (note: not available for all series, and only for series that aired on the BBC).

episode_count continuous episode count.

Source

All official episode viewer number are from BARB, as entered on Wikipedia https://en.wikipedia.org/wiki/The_Great_British_Bake_Off

Examples

```
if (require('tibble')) {
  ratings_raw
 }
head(ratings_raw)
```

---

results_raw	*Each baker's results by episode (raw)*

Description

This data has one row per baker for every episode, including episodes they did not appear in.

Usage

```
results_raw
```

Format

A data frame with 1,136 rows representing individual bakers per episode and 4 variables:

series A factor denoting UK series (1-10)

episode A factor denoting episode number within a series

baker A character string giving given or nickname only (note: see bakers for full baker names)

result A factor denoting if the baker was "IN", "OUT", "STAR BAKER", or "SICK" for a given episode. For finale episodes, values are either "WINNER" or "RUNNER-UP". If NA, baker did not appear in episode.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off_(series_1)#Results_summary, for example, for series 1 results summary.

Examples

```
if (require('tibble')) {
  results_raw
 }
```

---

scale_bakeoff   *Color scale constructor for* **bakeoff** *colors*

Description

Color scale constructor for **bakeoff** colors

Usage

```
scale_color_bakeoff(
  palette = "showstopper",
  discrete = TRUE,
  direction = 1,
  ...
)

scale_fill_bakeoff(
  palette = "showstopper",
  discrete = TRUE,
  direction = 1,
  ...
)
```

Arguments

palette   Character name of palette in [bakeoff_palette_names](#).

discrete   Boolean indicating whether color aesthetic is discrete or not.

direction   Either 1 or -1. If -1, the palette will be reversed.

...   Additional arguments passed to [ggplot2::discrete_scale()](#) or [ggplot2::scale_color_gradientn()](#)
              used respectively when discrete is TRUE or FALSE.

Value

A function for constructing a color or a fill scale used for ggplot2 graphics.

Examples

```
if (require('ggplot2')) {

 ggplot(ratings, aes(x = episode, y = viewers_7day, group = series, color = as.factor(series))) +
   geom_line(lwd = 3) +
   theme_minimal() +
   scale_color_bakeoff("finale", guide = "none")
}
```

---

seasons_raw   *Data about each season aired in the US (raw)*

Description

This data has one row per season aired in the US as 'The Great British Baking Show'.

Usage

```
seasons_raw
```

Format

A data frame with 8 rows representing individual series and 11 variables:

series an integer denoting UK series (1-8)

episode an integer denoting total number of episodes within series

us_season an integer denoting US season (1-5)

us_airdate a date denoting original airdate of episode in the US, according to [pbs.org](pbs.org)

Source

US airdates manually recorded from <https://www.pbs.org/food/shows/great-british-baking-show/>

Examples

```
if (require('tibble')) {
  seasons_raw
 }
head(seasons_raw)
```

---

series_raw   *Data about each series aired in the UK (raw)*

Description

This dataset has one row per series aired in the UK as 'The Great British Bake Off'. When did a series premiere in the UK? When was the finale episode? How many viewers on average did a series have?

Usage

```
series_raw
```

Format

A data frame with 10 rows representing individual series and 11 variables:

series A factor denoting UK series (1-10).

episodes An integer denoting total number of episodes within series.

premiere A date denoting original airdate of series premiere episode in the UK.

finale A date denoting original airdate of series finale episode in the UK.

winner A character string denoting name of series winner.

avg_uk_viewers Average UK viewers in millions. Also see ratings.

day_of_week A character string denoting weekday that series' episodes aired in UK.

timeslot time of day that series' episodes aired in UK (24-hour clock).

channel A character string denoting channel that series aired on: one of BBC One, BBC Two, or Channel 4.

runner_up_1 A character string denoting the name of one of the bakers who was a series runner-up. The number is not meaningful.

runner_up_2 A character string denoting the name of one of the bakers who was a series runner-up. The number is not meaningful.

Source

See https://en.wikipedia.org/wiki/The_Great_British_Bake_Off#Series_overview

Examples

```
if (require('tibble')) {
  series_raw
 }
head(series_raw)
```

---

spice_test_wide   *Spice Test*

Description

Results of a knowledge test from Junior Bake Off (Series 2, Episode 14).

Usage

```
spice_test_wide
```

Format

A data frame with 4 rows representing baker results from the spice-based knowledge test and 7 variables:

baker A character string with a given name or nickname.

guess_1,guess_2,guess_3 The different guesses (in order) for what the mystery spice was.

correct_1,correct_2,correct_3 An integer whether the guess was correct (1) or wrong (0).

Examples

```
if (require('tibble')) {
  spice_test_wide
 }
head(spice_test_wide)
```

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