

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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bakeoff_colors	<i>Extract named bakeoff colors as hex codes</i>
----------------	---

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 <code>bakeoff_palette_names()</code>).
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](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	<i>Bakers (raw)</i>
------------	---------------------

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](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	<i>Bakes (raw)</i>
-----------	--------------------

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	<i>Challenges</i>
------------	-------------------

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](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](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	<i>Color scale constructor for bakeoff colors</i>
---------------	--

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](https://www.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	<i>Spice Test</i>
-----------------	-------------------

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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