

# Package: bakeoff (via r-universe)

October 17, 2024

**Version** 0.2.0.9000

**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](https://en.wikipedia.org/wiki/The_Great_British_Bake_Off)>.

**License** MIT + file LICENSE

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

**BugReports** <https://github.com/apreshill/bakeoff/issues>

**Encoding** UTF-8

**LazyData** true

**ByteCompile** true

**Imports** grDevices, graphics

**Suggests** knitr, ggplot2, tibble, scales

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.1.9000

**Depends** R (>= 2.10)

**Repository** <https://apreshill.r-universe.dev>

**RemoteUrl** <https://github.com/apreshill/bakeoff>

**RemoteRef** HEAD

**RemoteSha** 00fdf4dd339b69a60b1d7c9fa7e5850971e04463

## Contents

bakeoff_colors	2
bakeoff_palette	3
bakeoff_palette_names	4
bakers	4
bakers_raw	6
bakes_raw	7

challenges . . . . .	7
episodes . . . . .	8
episodes_raw . . . . .	9
ratings . . . . .	10
ratings_raw . . . . .	11
results_raw . . . . .	12
scale_bakeoff . . . . .	13
seasons_raw . . . . .	14
series_raw . . . . .	14
spice_test_wide . . . . .	15

<b>Index</b>	<b>17</b>
--------------	-----------

---

bakeoff_colors	<i>Extract named <b>bakeoff</b> 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, <b>bakeoff</b> 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`*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](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](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](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](http://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	<i>Each episode's ratings (raw)</i>
-------------	-------------------------------------

---

### 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](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 <b>bakeoff</b> 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 <a href="#">bakeoff_palette_names</a> .
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 <a href="#">ggplot2::discrete_scale()</a> or <a href="#">ggplot2::scale_color_gradientn()</a> 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](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)
```



# Index

## \* colour scales

scale\_bakeoff, 13

## \* datasets

bakers, 4

bakers\_raw, 6

bakes\_raw, 7

challenges, 7

episodes, 8

episodes\_raw, 9

ratings, 10

ratings\_raw, 11

results\_raw, 12

seasons\_raw, 14

series\_raw, 14

spice\_test\_wide, 15

bakeoff\_colors, 2

bakeoff\_palette, 3

bakeoff\_palette\_names, 4, 13

bakers, 4

bakers\_raw, 6

bakes\_raw, 7

challenges, 7, 8

episodes, 8

episodes\_raw, 9

ggplot2::discrete\_scale(), 13

ggplot2::scale\_color\_gradientn(), 13

ratings, 10, 15

ratings\_raw, 10, 11

results\_raw, 12

scale\_bakeoff, 13

scale\_color\_bakeoff (scale\_bakeoff), 13

scale\_fill\_bakeoff (scale\_bakeoff), 13

seasons\_raw, 10, 14

series\_raw, 14

spice\_test\_wide, 15