Package ‘christmas’

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Description Generation of different Christmas cards, most of them being animated. Most of the cards can be generated in three languages (English, Catalan and Spanish). The collection started in 2009.
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Description

Generation of different Christmas cards, most of them being animated. Most of the cards can be generated in three languages (English, Catalan and Spanish). The collection started in 2009.

Author(s)

Jose Barrera-Gomez <jose.barrera@isglobal.org>

Usage

xmascaganer(
  year = 2010,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)

Arguments

year Year to be printed. Default is 2010.
language Language to be used in the card. One of c("english", "spanish", "catalan"). Default is "english".
seed Seed for reproducibility of the card. Default is NULL (no seed).
Value

A Christmas card plot with a caganer.

Author(s)

Jose Barrera-Gomez.

Examples

xmascaganer()

Description

A statistical/epidemiological Christmas tree (2016 card). This tree is built using a random subset of statistical and epidemiological words.

Usage

xmasepitree(year = 2017, seed = NULL)

Arguments

year Year to be printed. Default is 2017.
seed Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including a tree made of nice words.

Author(s)

Jose Barrera-Gomez.

Examples

xmasepitree()
xmasepitree(year = 2020)
Description


Usage

```r
xmasflag(
  year = 2016,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)
```

Arguments

- **year**: Year to be printed. Default is 2016.
- **language**: Language to be used in the card. One of c("english", "spanish", "catalan"). Default is "english".
- **seed**: Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including a message in a flag.

Author(s)

Jose Barrera-Gomez.

Examples

```r
xmasflag()
xmasflag(year = 2020, language = "catalan")
xmasflag(year = 2020, language = "spanish")
```
Description


Usage

xmasgalton(
  year = 2019,
  language = c("english", "spanish", "catalan"),
  balls = 240,
  layers = 15,
  onlyBoard = FALSE,
  treeballs = 15,
  time = 0.02,
  seed = NULL
)

Arguments

year Year to be printed. Default is 2019.
language Language to be used in the card. One of c("english", "spanish", "catalan"). Default is "english".
balls The number of balls in the board. Default is 240.
layers The number of layers in the board. Default is 15.
onlyBoard Logical. If FALSE (default), an empirical Christmas normal tree estimated from data is added to the histogram.
treeballs The number of balls to be added to the Christmas normal tree. Default is 15.
time Elapsed time, in seconds, between two consecutive balls in the board. Default is 0.02.
seed Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas tree in a Galton board.

Author(s)

Jose Barrera-Gomez.


Examples

xmasgalton()
# more balls, less layers:
xmasgalton(balls = 300, layers = 9)
# no balls in the gaussian christmas tree:
xmasgalton(balls = 400, layers = 11, time = 0.005, treeballs = 0)

Description


Usage

xmashealth(year = 2012, seed = NULL)

Arguments

d | Argument | Description |
--- | --- | --- |
year | Year to be printed. Default is 2012. |
seed | Seed for reproducibility of the card. Default is NULL (no seed). |

Value

A Christmas card plot including boxplots and OR estimates.

Author(s)

Jose Barrera-Gomez.

Examples

xmashealth()
**Neon Christmas card.**

**Description**

Christmas card using a neon sign. It only works for wishing 2014.

**Usage**

```r
xmasneon2014(
  language = c("english", "spanish", "catalan"),
  nflash = 30,
  pause = 0.1,
  seed = NULL
)
```

**Arguments**

- **language**: Language to be used in the card. One of `c("english", "spanish", "catalan")`. Default is "english".
- **nflash**: Number of flashes shown in the neon sign. Default is 30.
- **pause**: Pause, in seconds, between two consecutive flashes shown in the neon sign. Default is 0.1.
- **seed**: Seed for reproducibility of the card. Default is `NULL` (no seed).

**Value**

A Christmas card plot including a message and then a simulations of a neon sign.

**Author(s)**

Jose Barrera-Gomez.

**Examples**

```r
xmasneon2014()
xmasneon2014(language = "catalan", nflash = 10, pause = 0.3)
xmasneon2014(language = "spanish", nflash = 8, pause = 1)
xmasneon2014(nflash = 100, pause = 0.02)
```
xmasregression  

Christmas regression model.

Description

A plot of the Christmas regression model (2019 card).

Usage

xmasregression(
  year = 2020,
  language = c("english", "spanish", "catalan"),
  time = 12,
  seed = NULL
)

Arguments

year  
  Year to be printed. Default is 2020.

language  
  Language to be used in the card. One of c("english", "spanish", "catalan"). Default is "english".

time  
  Total time, in seconds, for the card generation. Default is 12.

seed  
  Seed for reproducibility of the card. Default is NULL (no seed).

Value

An illustration of the Christmas regression model.

Author(s)

Jose Barrera-Gomez.

Examples

xmasregression()
xmasregression(year = 2021, language = "catalan", time = 5)
Description


Usage

xmassnowkoch(year = 2013, seed = NULL)

Arguments

year Year to be printed. Default is 2013.
seed Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including Koch snowflakes.

Author(s)

Jose Barrera-Gomez.

Examples

xmassnowkoch()

Description

Christmas snowman (2014 card).

Usage

xmassnowman(
  year = 2015,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>year</td>
<td>Year to be printed. Default is 2015.</td>
</tr>
<tr>
<td>language</td>
<td>Language to be used in the card. One of c(&quot;english&quot;,&quot;spanish&quot;,&quot;catalan&quot;). Default is &quot;english&quot;.</td>
</tr>
<tr>
<td>seed</td>
<td>Seed for reproducibility of the card. Default is NULL (no seed).</td>
</tr>
</tbody>
</table>

Value

A Christmas card plot including a snowman.

Author(s)

Jose Barrera-Gomez.

Examples

```r
xmassnowman()
xmassnowman(year = 2020, language = "catalan")
xmassnowman(year = 2020, language = "spanish")
```

Description


Usage

```r
xmastext(
  year = 2011,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>year</td>
<td>Year to be printed. Default is 2011.</td>
</tr>
<tr>
<td>language</td>
<td>Language to be used in the card. One of c(&quot;english&quot;,&quot;spanish&quot;,&quot;catalan&quot;). Default is &quot;english&quot;.</td>
</tr>
<tr>
<td>seed</td>
<td>Seed for reproducibility of the card. Default is NULL (no seed).</td>
</tr>
</tbody>
</table>
Value

A Christmas card plot including the repetition of the same message randomly allocated.

Author(s)

Jose Barrera-Gomez.

Examples

xmastext()

xmastext(year = 2020, language = "spanish", seed = 666)

Description

A random naive Christmas tree (2008 card).

Usage

xmastree(
  year = 2009,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)

Arguments

year

  Year to be printed. Default is 2009.

language

  Language to be used in the card. One of c("english", "spanish", "catalan").
  Default is "english".

seed

  Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including a random tree.

Author(s)

Jose Barrera-Gomez.
Examples

xmastree()
xmastree(year = 2020, language = "catalan")
xmastree(year = 2020, language = "spanish", seed = 666)

xmastreeshape

Christmas shaped tree.

Description

Christmas trees (2017 card) with different shapes.

Usage

xmastreeshape(
    year = 2018,
    language = c("english", "spanish", "catalan"),
    shape = c("piramidal", "oval", "vshaped", "round", "columnar"),
    nballs = 15,
    ballscolor = NULL,
    seed = NULL
)

Arguments

year Year to be printed. Default is 2018.
language Language to be used in the card. One of c("english", "spanish", "catalan"). Default is "english".
shape The shape of the tree. One of c("piramidal", "oval", "vshaped", "round", "columnar"). Default is "piramidal".
nballs The number of balls in the tree. Default is 15.
ballscolor The colors to be used for the balls in the tree. It must be a vector with names of colors included in colors(), or NULL (default). If NULL, then colors are randomly selected.
seed Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including a christmas tree.

Author(s)

Jose Barrera-Gomez.
Examples

xmastreeshape()
xmastreeshape(shape = "oval", language = "catalan", ballscolor = "blue")
xmastreeshape(shape = "vshaped", nballs = 15, ballscolor = c("sienna2", "yellow2", "tomato"),
               seed = 1111)
xmastreeshape(shape = "round", language = "spanish")
xmastreeshape(shape = "columnar", nballs = 20, ballscolor = "red")

---

xmastreewire

*Wire Christmas tree.*

Description

A random wire Christmas tree (2021 card).

Usage

```r
xmastreewire(
  year = 2022,
  language = c("english", "spanish", "catalan"),
  seed = NULL
)
```

Arguments

- `year`: Year to be printed. Default is 2022.
- `language`: Language to be used in the card. One of `c("english", "spanish", "catalan")`. Default is "english".
- `seed`: Seed for reproducibility of the card. Default is NULL (no seed).

Value

A Christmas card plot including a random wire tree.

Author(s)

Jose Barrera-Gomez.

Examples

```r
xmastreewire()
xmastreewire(year = 2020, language = "catalan")
xmastreewire(year = 2020, language = "spanish", seed = 666)
```
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