Package 'minesweeper'

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Type Package
Title Play Minesweeper
Version 1.0.1
Description Play and record games of minesweeper using a graphics device that supports event handling. Replay recorded games and save GIF animations of them. Based on classic minesweeper as detailed by Crow P. (1997) https://minesweepergame.com/math/a-mathematical-introduction-to-the-game-of-minesweeper-1997.pdf >.
License MIT + file LICENSE
Encoding UTF-8
Imports grid
Suggests gifski
RoxygenNote 7.3.1
Depends R (>= 2.10)
URL https://github.com/hrryt/minesweeper
BugReports https://github.com/hrryt/minesweeper/issues
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play_minesweeper

Start a Minesweeper Game

Description

Play minesweeper interactively in the current graphics device.

Usage

```
play_minesweeper(
   difficulty = c("expert", "intermediate", "beginner"),
   nrow = NULL,
   ncol = NULL,
   mine_count = NULL,
   mine_density = NULL,
   os_type = c("guess", "unix", "windows")
)
```

Arguments

```
difficulty establishes default dimensions and mine count
nrow, ncol dimensions of the minesweeper board
mine_count number of mines to sweep
mine_density proportion of cells that conceal a mine
os_type used to interpret button argument of event handlers
```

Details

Expert difficulty is 16x30 with 99 mines, intermediate 16x16 with 40 mines, and beginner 9x9 with 10 mines.

The current graphics device must support event handling (see grDevices::getGraphicsEvent()). If onIdle is not supported, the timer will only update on mouse events.

Value

Object of class "minesweeper_recording" to pass to replay_minesweeper() or save_minesweeper_gif(), invisibly.

Controls

- Left click an empty square to reveal it.
- Right click an empty square to flag it.
- Middle click a number to reveal its adjacent squares.
- Press \mathbf{r} to reset the board.
- Press q to quit.

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Examples

```
x11() # Unix-specific example
recording <- play_minesweeper()
dev.off()</pre>
```

replay_minesweeper

Replay a Minesweeper Recording

Description

Replay a recorded game of minesweeper in the current graphics device.

Usage

```
replay_minesweeper(recording)
```

Arguments

recording

object of class "minesweeper_recording" returned by play_minesweeper()

Value

recording, invisibly.

Examples

```
x11() # Unix-specific example
recording <- play_minesweeper()
replay_minesweeper(recording)
dev.off()</pre>
```

 $save_minesweeper_gif$ Save a Minesweeper Recording to GIF

Description

Save a recorded game of minesweeper to a GIF file.

Usage

```
save_minesweeper_gif(
  recording,
  gif_file = "animation.gif",
  width = 800,
  height = 600,
  delay = 1,
  loop = TRUE,
  progress = TRUE,
  ...
)
```

Arguments

recording	object of class "minesweeper_recording" returned by play_minesweeper()
gif_file	output gif file
width	gif width in pixels
height	gif height in pixel
delay	time to show each image in seconds
loop	if the gif should be repeated. Set to FALSE to only play once, or a number to indicate how many times to repeat after the first.
progress	print some verbose status output
	other graphical parameters passed to png

Details

Reduce the delay for greater temporal resolution.

Value

The file path of the GIF file.

Examples

```
x11() # Unix-specific example
recording <- play_minesweeper()
save_minesweeper_gif(recording)
dev.off()</pre>
```

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