Package 'countdown'

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Title A Countdown Timer for HTML Presentations, Documents, and Web Apps	
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countdown

Countdown Timer

Description

Creates a countdown timer using HTML, CSS, and vanilla JavaScript, suitable for use in web-based presentations, such as those created by xaringan::infinite_moon_reader().

Usage

```
countdown(
 minutes = 1L,
  seconds = 0L,
  . . . ,
  id = NULL,
  class = NULL,
  style = NULL,
 play_sound = FALSE,
  font_size = "3rem",
 margin = "0.6em",
 padding = "10px 15px",
 bottom = if (is.null(top)) "0",
  right = if (is.null(left)) "0",
  top = NULL,
  left = NULL.
 warn_when = 0L,
  update_every = 1L,
  blink_colon = update_every > 1L,
  start_immediately = FALSE,
  box_shadow = "0px 4px 10px 0px rgba(50, 50, 50, 0.4)",
  border_width = "3px",
 border_radius = "15px",
  line_height = "1",
  color_border = "#ddd",
  color_background = "inherit",
  color_text = "inherit",
  color_running_background = "#43AC6A",
  color_running_border = prismatic::clr_darken(color_running_background, 0.1),
  color_running_text = NULL,
  color_finished_background = "#F04124",
 color_finished_border = prismatic::clr_darken(color_finished_background, 0.1),
  color_finished_text = NULL,
  color_warning_background = "#E6C229",
  color_warning_border = prismatic::clr_darken(color_warning_background, 0.1),
  color_warning_text = NULL
)
```

```
countdown_fullscreen(
  minutes = 1,
  seconds = 0.
  class = NULL,
  start_immediately = FALSE,
  font_size = "30vw",
  border_width = "0".
  border_radius = "0",
  margin = "0",
  padding = "0",
  top = 0,
  right = 0,
  bottom = 0,
  left = 0
)
```

Arguments

id

minutes	The number of minutes for which the timer should run. This value is added to
	seconds.

The number of seconds for which the timer should run. This value is added to seconds

Ignored by countdown(). In countdown_fullscreen(), additional arguments are passed on to countdown().

A optional unique ID for the <div> containing the timer. A unique ID will be

created if none is specified. All of the timers in a single document need to have unique IDs to function properly. Unless you have a specific reason, it would

probably be best to leave this unset.

Optional additional classes to be added to the <div> containing the timer. The class

"countdown" class is added automatically. If you want to modify the style of the timer, you can modify the "countdown" class or specify additional styles

here that extend the base CSS.

style CSS rules to be applied inline to the timer. Use style to override any global

CSS rules for the timer. For example, to display the timer relative to the position where it is called (rather than positioned absolutely, as in the default), set style

= "position: relative; width: min-content;".

Play a sound at the end of the timer? If TRUE, plays the "stage complete" sound play_sound

courtesy of beepr. Alternatively, play_sound can be a relative or absolute URL

to a sound file, such as an mp3, wav, ogg, or other audio file type.

font_size The font size of the time displayed in the timer.

The margin applied to the timer container, default is "0.5em". margin

padding The padding within the timer container, default is "10px 15px".

bottom Position of the timer within its container. By default the timer is bottom-aligned

using bottom = "0". If top is set, bottom defaults to NULL.

right Position of the timer within its container. By default the timer is right-aligned

using right = "0". If left is set, right defaults to NULL.

top Position of the timer within its container. By default top is unset (NULL).

Position of the timer within its container. By default left is unset (NULL).

warn_when Change the countdown to "warning" state when warn_when seconds remain.

This is achieved by adding the warning class to the timer when warn_when

seconds or less remain. Only applied when greater than 0.

update_every Update interval for the timer, in seconds. When this argument is greater than

1, the timer run but the display will only update, once every update_every seconds. The timer will switch to normal second-by-second updating for the

last two update_every periods.

blink_colon Adds an animation to the blink the colon of the digital timer at each second.

Because the blink animation is handled via CSS and not by the JavaScript process that decrements the timer, so the animation may fall out of sync with the timer. For this reason, the blink animation is only shown, by default, when update_every is greater than 1, i.e. when the countdown time is updated peri-

odically rather than each second.

start_immediately

If TRUE, the countdown timer starts as soon as its created (or as soon as the

slides, document or Shiny app are loaded).

box_shadow Shadow specification for the timer, set to NULL to remove the shadow.

border_width Width of the timer border (all states).

border_radius Radius of timer border corners (all states).

down vertically. The best value generally depends on the fonts used in your

slides or document. The default value is 1.

color_border Color of the timer border when not yet activated.

color_background

Color of the timer background when not yet activated.

color_text Color of the timer text when not yet activated.

color_running_background

Color of the timer background when running. Colors are automatically chosen for the running timer border and text (color_running_border and color_running_text, respectively) from the running background color.

color_running_border

Color of the timer border when running.

color_running_text

Color of the timer text when running.

color_finished_background

Color of the timer background when finished. Colors are automatically chosen for the finished timer border and text (color_finished_border and color_finished_text, respectively) from the finished background color.

color_finished_border

Color of the timer border when finished.

```
color_finished_text
Color of the timer text when finished.

color_warning_background
Color of the timer background when the timer is below warn_when seconds.
Colors are automatically chosen for the warning timer border and text (color_warning_border and color_warning_text, respectively) from the warning background color.

color_warning_border
Color of the timer border when the timer is below warn_when seconds.

color_warning_text
Color of the timer text when the timer is below warn_when seconds.
```

Value

A vanilla JavaScript countdown timer as HTML, with dependencies.

Functions

- countdown(): Create a countdown timer for use in presentations and HTML documents.
- countdown_fullscreen(): A full-screen timer that takes up the entire view port and uses the largest reasonable font size.

See Also

```
countdown_app()
```

Examples

```
if (interactive()) {
 countdown(minutes = 0, seconds = 42)
 countdown(
   minutes = 1,
   seconds = 30,
   left = 0,
   right = 0,
   padding = "15px",
   margin = "5%",
   font_size = "6em"
 # For a stand-alone full-screen countdown timer, use countdown_fullscreen()
 # with default parameters.
 countdown_fullscreen(1, 30)
 # For xaringan slides, use percentages for `margin` to set the distance from
 # the edge of the slide and use `font_size` to adjust the size of the digits.
 # If you need to nudge the text up or down vertically, increase or decrease
 # `line_height`.
 countdown_fullscreen(
   minutes = 0,
   seconds = 90,
```

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```
margin = "5%",
  font_size = "8em",
)

# To position the timer "inline" in R Markdown documents,
# use the `style` argument on each timer:
  countdown(1, 30, style = "position: relative; width: min-content;")
}
```

countdown_action

Perform a Countdown Timer Action in a Shiny App

Description

Performs an action in a countdown timer dynamically in a Shiny app via server logic. You can start, stop, reset, or bump time time (when the timer is running) up or down. See countdown_shiny_example() for an example app demonstrating the usage of countdown_action().

Usage

```
countdown_action(
  id,
  action = c("start", "stop", "reset", "bumpUp", "bumpDown"),
  session = NULL
)
```

Arguments

id	A character vector with one or more id values for timers created with countdown() or countdown_fullscreen(). Be sure to set the id value when creating the timer.
action	The action to perform, one of "start", "stop", "reset", "bumpUp", or "bumpDown".
session	The reactive session object for the current Shiny session. In general, only required for expert or unusual use cases.

Value

Invisibly returns the id of the updated countdown timer(s).

See Also

Other Shiny functions: countdown_app(), countdown_shiny_example(), countdown_update()

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countdown_app

Launch Countdown Shiny App

Description

Launches a full screen, interactive countdown timer as a shiny-package app.

Usage

```
countdown_app(...)
```

Arguments

. . .

Arguments passed on to shiny::runApp

port The TCP port that the application should listen on. If the port is not specified, and the shiny.port option is set (with options(shiny.port = XX)), then that port will be used. Otherwise, use a random port between 3000:8000, excluding ports that are blocked by Google Chrome for being considered unsafe: 3659, 4045, 5060, 5061, 6000, 6566, 6665:6669 and 6697. Up to twenty random ports will be tried.

launch.browser If true, the system's default web browser will be launched automatically after the app is started. Defaults to true in interactive sessions only. The value of this parameter can also be a function to call with the application's URL.

host The IPv4 address that the application should listen on. Defaults to the shiny.host option, if set, or "127.0.0.1" if not. See Details.

workerId Can generally be ignored. Exists to help some editions of Shiny Server Pro route requests to the correct process.

quiet Should Shiny status messages be shown? Defaults to FALSE.

test.mode Should the application be launched in test mode? This is only used for recording or running automated tests. Defaults to the shiny.testmode option, or FALSE if the option is not set.

Value

Runs the countdown timer Shiny app in the current R session.

See Also

Other Shiny functions: countdown_action(), countdown_shiny_example(), countdown_update()

Examples

```
if (interactive()) {
  countdown_app()
}
```

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```
countdown_shiny_example
```

Example Countdown Shiny App

Description

An example app that demonstrates the ways that countdown timers can be integrated into Shiny apps.

Usage

```
countdown_shiny_example(display.mode = c("showcase", "normal", "auto"))
```

Arguments

display.mode

The mode in which to display the application. If set to the value "showcase", shows application code and metadata from a DESCRIPTION file in the application directory alongside the application. If set to "normal", displays the application normally. Defaults to "auto", which displays the application in the mode given in its DESCRIPTION file, if any.

Value

Runs the example Shiny app in the current R session.

See Also

```
Other Shiny functions: countdown_action(), countdown_app(), countdown_update()
```

Examples

```
if (interactive()) {
  countdown_shiny_example()
}
```

countdown_update

Update a Countdown Timer in a Shiny App

Description

Updates the settings of a countdown timer dynamically in a Shiny app via server logic. See countdown_shiny_example() for an example app demonstrating the usage of countdown_update().

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Usage

```
countdown_update(
   id,
   ...,
   minutes = NULL,
   seconds = NULL,
   warn_when = NULL,
   update_every = NULL,
   blink_colon = NULL,
   play_sound = NULL,
   session = NULL
)
```

Arguments

or countdown_fullscreen(). Be sure to set the id value when creating the

timer.

... Ignored, but included for future compatibility.

minutes The number of minutes for which the timer should run. This value is added to

seconds.

seconds The number of seconds for which the timer should run. This value is added to

minutes.

warn_when Change the countdown to "warning" state when warn_when seconds remain.

This is achieved by adding the warning class to the timer when warn_when

seconds or less remain. Only applied when greater than 0.

update_every Update interval for the timer, in seconds. When this argument is greater than

1, the timer run but the display will only update, once every update_every seconds. The timer will switch to normal second-by-second updating for the

last two update_every periods.

blink_colon Adds an animation to the blink the colon of the digital timer at each second.

Because the blink animation is handled via CSS and not by the JavaScript process that decrements the timer, so the animation may fall out of sync with the timer. For this reason, the blink animation is only shown, by default, when update_every is greater than 1, i.e. when the countdown time is updated peri-

odically rather than each second.

play_sound Play a sound at the end of the timer? If TRUE, plays the "stage complete" sound

courtesy of beepr. Alternatively, play_sound can be a relative or absolute URL

to a sound file, such as an mp3, way, ogg, or other audio file type.

session The reactive session object for the current Shiny session. In general, only

required for expert or unusual use cases.

Value

Invisibly returns the options sent to update the countdown timer(s).

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See Also

Other Shiny functions: countdown_action(), countdown_app(), countdown_shiny_example()

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