

# Package: roxy.shinylive (via r-universe)

November 25, 2024

**Type** Package

**Title** A 'roxygen2' Extension for 'Shinylive'

**Version** 1.0.0

**Description** An extension for 'roxygen2' to embed 'Shinylive' applications in the package documentation.

**License** Apache License 2.0

**URL** <https://github.com/insightengineering/roxy.shinylive/>

**BugReports** <https://github.com/insightengineering/roxy.shinylive/issues>

**Depends** R (>= 4.0)

**Imports** glue, jsonlite (>= 1.8.6), lzstring (>= 0.1.3), roxygen2 (>= 7.2.0), stringr (>= 0.4)

**Suggests** pkgdown (>= 2.0.0), testthat (>= 3.1.5), withr (>= 2.4.3)

**Config/Needs/verdepcheck** tidyverse/glue, jeroen/jsonlite, lzstring=parmsam/lzstring-r, r-lib/roxygen2, tidyverse/stringr, r-lib/pkgdown, r-lib/testthat, r-lib/withr

**Config/Needs/website** insightengineering/nesttemplate

**Config/testthat/edition** 3

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.3.2

**Collate** 'tag\_examplesShinylive.R' 'parse\_url.R'

**NeedsCompilation** no

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**Repository** CRAN

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**Config/pak/sysreqs** make libicu-dev libxml2-dev

## Contents

create_shinylive_url . . . . .	2
tag-examplesShinylive . . . . .	3
<b>Index</b>	<b>6</b>

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create\_shinylive\_url *Creates Shinylive url based on app code.*

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### Description

Creates Shinylive url based on app code.

### Usage

```
create_shinylive_url(code, mode = c("app", "editor"), header = TRUE)
```

### Arguments

code	(character(1)) A string with app code.
mode	(character(1)) A string with mode. One of "app" or "editor". Default is "app".
header	(logical(1)) A logical value indicating whether to include header. Ignored if mode is "editor".

### Value

(character(1)) Shinylive app url.

### Examples

```
code <- "this is your app code as a string"
create_shinylive_url(code)
create_shinylive_url(code, header = FALSE)
create_shinylive_url(code, mode = "editor")
```

---

tag-examplesShinylive *Custom @examplesShinylive tag.*

---

## Description

This function generates a new "Examples in Shinylive" section in the documentation. This section contains URL to the application in Shinylive and for HTML outputs: an iframe with the application. If no code is provided then the code is taken from the following @examples or @examplesIf tag.

## Usage

```
#' @examplesShinylive${1:# example code (optional)}
```

## Details

The application code must be executable inside Shinylive. If the application code includes functions from your package, you must add `library(<package>)` beforehand. For more information, refer to the Decoration section on how to use and decorate existing examples.

Note: All the packages used in the application code need to be installable in WebR. See [this article](#) for more details.

## Decoration

To avoid repetition between the @examplesShinylive and @examples sections contents, there are special string literals to be used inside @examplesShinylive tag content that allow you to access the content(s) of the @examples or @examplesIf tags. These literals should be used as expressions embraced with `{{ }}`, which are then interpolated using `glue::glue_data(..., .open = "{{", .close = "}}"`).

The following keywords are available:

- `{{ next_example }}` - (the default if empty) "raw" element of the next example
- `{{ prev_example }}` - "raw" element of the previous example
- `{{ tags_examples }}` - a list of @examples or @examplesIf tags
- `{{ examples }}` - a list of "raw" elements from tags\_examples list elements

This allows you to access and decorate existing example code to create executable application code for Shinylive. Refer to the examples section for possible use cases.

## Examples

```
# As a part of documentation:

# basic example:
#' (docs)
#' @examplesShinylive
#' @examples
#' (example code)
```

```

# using keywords - `{{ next_example }}`:
#' (docs)
#' @examplesShinylive
#' foo <- 1
#' {{ next_example }}
#' bar <- 2
#' @examples
#' (example code)

# using keywords - `{{ prev_example }}`:
#' (docs)
#' bar <- 2
#' @examples
#' (example code)
#' @examplesShinylive
#' foo <- 1
#' {{ prev_example }}

# A typical example would be:
#' (docs)
#' @examplesShinylive
#' library(<package>)
#' interactive <- function() TRUE
#' {{ next_example }}
#' @examples
#' app <- ...
#' if (interactive()) {
#'   shinyApp(app$ui, app$server)
#' }

# multiple apps:
#' (docs)
#' @examplesShinylive
#' @examples
#' (example app 1)
#' @examplesShinylive
#' @examples
#' (example app 2)

# skip parts of example code:
#' (docs)
#' @examples
#' (example code - skipped)
#' @examplesShinylive
#' @examples
#' (example code - included)

# multiple apps with keywords:
#' (docs)
#' @examplesShinylive
#' x <- 1
#' {{ next_example }}

```

```
#' @examples
#' (example app 1)
#' @examplesShinylive
#' y <- 1
#' {{ next_example }}
#' @examples
#' (example app 2)

# combining multiple examples:
#' (docs)
#' @examples
#' (app pre-requisites)
#' @examples
#' (example app)
#' @examplesShinylive
#' {{ paste0(examples, collapse = ", ") }}

# identical to the above example but with a different approach:
#' (docs)
#' @examples
#' (app pre-requisites)
#' @examples
#' (example app)
#' @examplesShinylive
#' {{ paste0(lapply(tags_examples, `[`, "raw"), collapse = ", ") }}
```

# Index

`create_shinylive_url`, [2](#)

`tag-examplesShinylive`, [3](#)