# Package 'annotator'

October 18, 2023

**Title** Image Annotation and Polygon Outlining using Free Drawing

**Version** 0.0.3.1

**Description** Provides functions to create image annotations through polygon outlining. Annotator has the same function as 'graphics::locator()' but achieves its purpose through drawing, rather than multiple mouse clicks. It is based on the 'htmlwidgets' package and 'fabric.js' JavaScript library <http://fabricjs.com/>.

**License** GPL (>= 3)

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**URL** https://github.com/valcu/annotator

**BugReports** https://github.com/valcu/annotator/issues

**Depends** R (>= 4.0.0),

**Imports** methods, utils, shiny, htmlwidgets, xfun

**Suggests** testthat (>= 3.0.0), stringr, glue, bslib, sf, terra, keys, colourpicker, spelling

**Config/testthat/edition** 3

**Language** en-US

**NeedsCompilation** no

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**Repository** CRAN

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# R topics documented:

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annotate *Create an annotation widget*

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### Description

This function creates an annotation using [htmlwidgets](#). The widget can be rendered on HTML pages generated from Shiny or other applications.

### Usage

```
annotate(
  im,
  resultId = "annot_id",
  brushWidth = 4,
  brushColor = "red",
  opacity = 0.5,
  fill = "grey"
)
```

### Arguments

| | |
|---|---|
| im | the input image. If missing, a transparent 800x600 png is used. |
| resultId | the id of the `div` in the `UI` where the annotation (the drawn polygon) is stored. Only relevant when the widget is used in shiny. Defaults to "annot_id". |
| brushWidth | default to 3 pixels. |
| brushColor | Any valid CSS color. For example "red", "rgba(255,93,0,1)", or "#1c4564". |
| opacity | default to 0.5. |
| fill | default to 'gray' |

### Value

An object generated by [htmlwidgets::createWidget()](#).

### Examples

```
if (interactive()) {
  require(annotator)
  im = system.file("sample_images", "aves", "5.png", package = "annotator")
  annotate(im)
}
```

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annotator *Image annotation*

---

## Description

Image annotation using free drawing.

## Author(s)

Mihai Valcu <mvalcu@gwdg.de>

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annotatorOutput *Widget output function for use in Shiny*

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## Description

Widget output function for use in Shiny

## Usage

```
annotatorOutput(outputId, width = "auto", height = "auto", ...)
```

## Arguments

| | |
|---|---|
| outputId | The name of the input. |
| width | in CSS units, default to "auto". |
| height | in CSS units, default to "auto". |
| ... | further arguments to pass to htmlwidgets::shinyWidgetOutput() e.g. inline. |

## Value

An object generated by htmlwidgets::shinyWidgetOutput().

## See Also

runExample()

## Examples

```
# Print the directory containing the code for all examples to see this function in use.
system.file("examples", package = "annotator")
```

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empty_png *this is an 800x600 transparent png*

---

### Description

this is an 800x600 transparent png

### Usage

```
empty_png()
```

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renderAnnotator *Widget render function for use in Shiny*

---

### Description

Widget render function for use in Shiny

### Usage

```
renderAnnotator(expr, env = parent.frame(), quoted = FALSE)
```

### Arguments

| | |
|---|---|
| expr | An annotator expression. |
| env | A environment. Default to parent.frame(). |
| quoted | A boolean value. |

### Value

An object generated by [htmlwidgets::shinyRenderWidget()](htmlwidgets::shinyRenderWidget()).

### See Also

[runExample()](runExample())

### Examples

```
# Print the directory containing the code for all examples to see this function in use.
system.file("examples", package = "annotator")
```

---

runExample *Run Shiny Examples*

---

### Description

Launch Shiny example applications bundled in annotator.

### Usage

```
runExample(example, ...)
```

### Arguments

| | |
|---|---|
| example | The name of the example to run. Available are: `01_hello`, `02_pipeline` |
| ... | further arguments to pass to `shiny::runApp()` |

### Value

No return value, called for its side effects.

### Examples

```
## Only run this example in interactive R sessions
if (interactive()) {
 annotator::runExample("01_hello")
 annotator::runExample("02_pipeline")

 # Print the directory containing the code for all examples
 system.file("examples", package = "annotator")
}
```

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