

# Package ‘annotator’

July 22, 2025

**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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|----------|------------------------------------|
| annotate | <i>Create an annotation widget</i> |
|----------|------------------------------------|

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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)  
}
```

---

|           |                         |
|-----------|-------------------------|
| annotator | <i>Image annotation</i> |
|-----------|-------------------------|

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**Description**

Image annotation using free drawing.

**Author(s)**

Mihai Valcu <mvalcu@gwdg.de>

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|                 |                                                |
|-----------------|------------------------------------------------|
| annotatorOutput | <i>Widget output function for use in Shiny</i> |
|-----------------|------------------------------------------------|

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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 <code>htmlwidgets::shinyWidgetOutput()</code> 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")
```

---

|           |                                           |
|-----------|-------------------------------------------|
| empty_png | <i>this is an 800x600 transparent png</i> |
|-----------|-------------------------------------------|

---

**Description**

this is an 800x600 transparent png

**Usage**

```
empty_png()
```

---

|                 |                                                |
|-----------------|------------------------------------------------|
| renderAnnotator | <i>Widget render function for use in Shiny</i> |
|-----------------|------------------------------------------------|

---

**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 <code>parent.frame()</code> . |
| quoted | A boolean value.                                        |

**Value**

An object generated by `htmlwidgets::shinyRenderWidget()`.

**See Also**

[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**

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <code>example</code> | The name of the example to run. Available are: 01_hello, 02_pipeline |
| <code>...</code>     | further arguments to pass to <a href="#">shiny::runApp()</a>         |

**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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