

# Package ‘colorizer’

October 12, 2022

**Type** Package

**Title** Colorize Old Images Using the 'DeOldify' Image Colorization API

**Version** 0.1.0

**Description** Call the 'DeOldify' <<https://github.com/jantic/DeOldify>> image colorization API on 'DeepAI' <<https://deepai.org/machine-learning-model/colorizer>> to colorize black and white images.

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**URL** <https://github.com/zumbov2/colorizer>

**BugReports** <https://github.com/zumbov2/colorizer/issues>

**SystemRequirements** ImageMagick++: ImageMagick-c++-devel (rpm) or libmagick++-dev (deb)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Imports** httr, magick, purrr, dplyr, stringr, tibble, magrittr

**Suggests** gifski

**NeedsCompilation** no

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**Repository** CRAN

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clsave *Save Colorized and Juxtaposed Images*

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**Description**

clsave saves images that have been colorized using `colorize` or juxtaposed with `juxtapose`.

**Usage**

```
clsave(response, destfile = "")
```

**Arguments**

`response` a response object of a `colorize` function call.  
`destfile` a character string or vector with the name where the images are saved.

**Value**

Besides saving, the function returns the response object invisibly.

**Examples**

```
## Not run:  
# Save colorized images  
res <- colorize(img = "https://upload.wikimedia.org/wikipedia/commons/9/9e/Breadfruit.jpg")  
clsave(res, destfile = "colorized_version.jpg")  
  
## End(Not run)
```

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colorize *Call Image Colorization API*

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**Description**

`colorize` calls the DeOldify image colorization API on DeepAI.

**Usage**

```
colorize(  
  img,  
  key = "quickstart-QUdJIGlzIGNvbWluZy4uLi4K",  
  pane = c("plot", "view", "none")  
)
```

### Arguments

img	path or URL to the images to be colorized.
key	DeepAI API key.
pane	defines in which pane the image is displayed: plot, view or none.

### Details

With the default API key a few queries are possible. After registration on DeepAI <https://deepai.org/>, around 5000 free requests are currently possible.

### Value

A tibble with the file locations of the original images and the response URLs to the colorized images. The latter expire after some time. It is recommended to save the colorized images.

### Examples

```
## Not run:  
# Call image colorization API  
colorize(img = "https://upload.wikimedia.org/wikipedia/commons/9/9e/Breadfruit.jpg")  
  
## End(Not run)
```

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### Description

Colorize and Restore Old Images Using the 'DeOldify' Image Colorization API on 'DeepAI'

### Details

See the README on [GitHub](#)

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juxtapose	<i>Compare Images</i>
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### Description

juxtapose compares the original image with the colorized version obtained with colorize.

**Usage**

```
juxtapose(
  response,
  type = c("side-by-side", "stacked", "c-focus", "h-focus", "v-focus", "h-split",
           "v-split", "d-split", "u-animate", "s-animate"),
  pane = c("plot", "view", "none")
)
```

**Arguments**

response	a response object of a colorize function call.
type	defines the type of juxtaposition: <ul style="list-style-type: none"> <li>• side-by-side original image left, colorized right.</li> <li>• stacked original above colorized.</li> <li>• c-focus colorized center with original image border.</li> <li>• h-focus above and below strips of original image.</li> <li>• v-focus left and right strips of original image.</li> <li>• h-split horizontally halved.</li> <li>• v-split vertically halved.</li> <li>• d-split diagonally halved.</li> <li>• u-animate animated, colorized to the top (upwards).</li> <li>• s-animate animated, colorized from left to right (sideways).</li> </ul>
pane	defines in which pane the image is displayed: Plots or Viewer.

**Value**

The function adds the comparison to the response object and returns it invisibly.

**Examples**

```
## Not run:
# Compare images
res <- colorize(img = "https://upload.wikimedia.org/wikipedia/commons/9/9e/Breadfruit.jpg")
juxtapose(res)

## End(Not run)
```

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