

# Package ‘colorizer’

November 6, 2020

**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.

**License** MIT + file LICENSE

**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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