

# Package ‘resmush’

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**Title** Optimize and Compress Image Files with 'reSmush.it'

**Version** 0.2.1

**Description** Compress local and online images using the 'reSmush.it' API service <<https://resmush.it/>>.

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**URL** <https://dieghernan.github.io/resmush/>,  
<https://github.com/dieghernan/resmush>

**BugReports** <https://github.com/dieghernan/resmush/issues>

**Depends** R (>= 3.6.0)

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resmush_dir	<i>Optimize files of several directories</i>
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### Description

Optimize all the local files of a directory (or list of directories) using the [reSmush.it API](#).

### Usage

```
resmush_dir(
  dir,
  ext = "\\.(png|jpe?g|bmp|gif|tif)$",
  suffix = "_resmush",
  overwrite = FALSE,
  progress = TRUE,
  report = TRUE,
  recursive = FALSE,
  ...
)
```

### Arguments

dir	Character or vector of characters representing paths of local directories.
ext	<a href="#">regex</a> indicating the extensions of the files to be optimized. The default value would capture all the extensions admitted by the API.
suffix	Character, defaults to "_resmush". By default, a new file with the suffix is created in the same directory (i.e., optimized example.png would be example_resmush.png). Values "", NA and NULL would be the same than overwrite = TRUE.
overwrite	Logical. Should the files in dir be overwritten? If TRUE suffix would be ignored.
progress	Logical. Display a progress bar when needed.
report	Logical. Display a summary report of the process in the console. See also <b>Value</b> .
recursive	Logical. Should the dir file search recursive? See also <a href="#">list.files()</a> .
...	Arguments passed on to <a href="#">resmush_file</a>
qlty	Only affects jpg files. Integer between 0 and 100 indicating the optimization level. For optimal results use vales above 90.
exif_preserve	Logical. Should the <b>Exif</b> information (if any) deleted? Default is to remove it (i.e. exif_preserve = FALSE).

**Value**

Writes on disk the optimized file if the API call is successful in the directories specified in `dir`.

In all cases, a (invisible) data frame with a summary of the process is returned as well.

**See Also**

[reSmush.it API docs](#).

See [resmush\\_clean\\_dir\(\)](#) to clean a directory of previous runs.

Other functions for optimizing: [resmush\\_file\(\)](#), [resmush\\_url\(\)](#)

**Examples**

```
# Get example dir and copy
example_dir <- system.file("extimg", package = "resmush")
temp_dir <- tempdir()
file.copy(example_dir, temp_dir, recursive = TRUE)

# Dest folder

dest_folder <- file.path(tempdir(), "extimg")

# Non-recursive
resmush_dir(dest_folder)
resmush_clean_dir(dest_folder)

# Recursive
summary <- resmush_dir(dest_folder, recursive = TRUE)

# Same info in the invisible df
summary[, -c(1, 2)]

# Display with png
if (require("png", quietly = TRUE)) {
  a_png <- grepl("png$", summary$dest_img)
  my_png <- png::readPNG(summary[a_png, ]$dest_img[2])
  grid::grid.raster(my_png)
}

# Clean up example
unlink(dest_folder, force = TRUE, recursive = TRUE)
```

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resmush_file	<i>Optimize a local file</i>
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### Description

Optimize local images using the [reSmush.it API](#).

### Usage

```
resmush_file(
  file,
  suffix = "_resmush",
  overwrite = FALSE,
  progress = TRUE,
  report = TRUE,
  qlty = 92,
  exif_preserve = FALSE
)
```

### Arguments

file	Path or paths to local files. <b>reSmush</b> can optimize the following image files: <ul style="list-style-type: none"> <li>• png</li> <li>• jpg/jpeg</li> <li>• gif</li> <li>• bmp</li> <li>• tiff</li> </ul>
suffix	Character, defaults to "_resmush". By default, a new file with the suffix is created in the same directory than file. (i.e., optimized example.png would be example_resmush.png). Values "", NA and NULL would be the same than overwrite = TRUE.
overwrite	Logical. Should the file in file be overwritten? If TRUE suffix would be ignored.
progress	Logical. Display a progress bar when needed.
report	Logical. Display a summary report of the process in the console. See also <b>Value</b> .
qlty	Only affects jpg files. Integer between 0 and 100 indicating the optimization level. For optimal results use vales above 90.
exif_preserve	Logical. Should the <b>Exif</b> information (if any) deleted? Default is to remove it (i.e. exif_preserve = FALSE).

### Value

Writes on disk the optimized file if the API call is successful in the same directory than file.

With the option report = TRUE a summary report is displayed in the console. In all cases, a (invisible) data frame with a summary of the process used for generate the report is returned.

**See Also**

[reSmush.it API docs](#).

See [resmush\\_clean\\_dir\(\)](#) to clean a directory of previous runs.

Other functions for optimizing: [resmush\\_dir\(\)](#), [resmush\\_url\(\)](#)

**Examples**

```
png_file <- system.file("extimg/example.png", package = "resmush")

# For the example, copy to a temporary file
tmp_png <- tempfile(fileext = ".png")

file.copy(png_file, tmp_png, overwrite = TRUE)

resmush_file(tmp_png)

# Several paths
jpg_file <- system.file("extimg/example.jpg", package = "resmush")
tmp_jpg <- tempfile(fileext = ".jpg")

file.copy(jpg_file, tmp_jpg, overwrite = TRUE)

# Output summary in console
summary <- resmush_file(c(tmp_png, tmp_jpg))

# Similar info in an (invisible) data frame as a result
summary

# Display with png
if (require("png", quietly = TRUE)) {
  my_png <- png::readPNG(summary$dest_img[1])
  grid::grid.raster(my_png)
}

# With parameters
resmush_file(tmp_jpg)
resmush_file(tmp_jpg, qlty = 10)
```

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resmush\_url

*Optimize an online file*

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**Description**

Optimize and download an online image using the [reSmush.it API](#).

**Usage**

```
resmush_url(
  url,
  outfile = file.path(tempdir(), basename(url)),
  overwrite = FALSE,
  progress = TRUE,
  report = TRUE,
  qlty = 92,
  exif_preserve = FALSE
)
```

**Arguments**

url	url or a vector of urls pointing to hosted image files. <b>reSmush</b> can optimize the following image files: <ul style="list-style-type: none"> <li>• png</li> <li>• jpg/jpeg</li> <li>• gif</li> <li>• bmp</li> <li>• tiff</li> </ul>
outfile	Path or paths where the optimized files would be store in your disk. By default, temporary files (see <code>tempfile()</code> ) with the same <code>basename()</code> than the file provided in url would be created. It should be of the same length than url parameter.
overwrite	Logical. Should outfile be overwritten (if already exists)? If FALSE and outfile exists it would create a copy with a numerical suffix (i.e. <outfile>.png, <outfile>_01.png, etc.).
progress	Logical. Display a progress bar when needed.
report	Logical. Display a summary report of the process in the console. See also <b>Value</b> .
qlty	Only affects jpg files. Integer between 0 and 100 indicating the optimization level. For optimal results use vales above 90.
exif_preserve	Logical. Should the <b>Exif</b> information (if any) deleted? Default is to remove it (i.e. <code>exif_preserve = FALSE</code> ).

**Value**

Writes on disk the optimized file if the API call is successful. In all cases, a (invisible) data frame with a summary of the process is returned as well.

If any value of the vector outfile is duplicated, `resmush_url()` would rename the output with a suffix `_01`. `_02`, etc.

**See Also**

[reSmush.it API docs](#).

Other functions for optimizing: `resmush_dir()`, `resmush_file()`

**Examples**

```
# Base url
base_url <- "https://raw.githubusercontent.com/dieghernan/resmush/main/inst/"

png_url <- paste0(base_url, "/extimg/example.png")
resmush_url(png_url)

# Several urls
jpg_url <- paste0(base_url, "/extimg/example.jpg")

summary <- resmush_url(c(png_url, jpg_url))

# Returns an (invisible) data frame with a summary of the process
summary

# Display with png
if (require("png", quietly = TRUE)) {
  my_png <- png::readPNG(summary$dest_img[1])
  grid::grid.raster(my_png)
}

# Use with jpg and parameters
resmush_url(jpg_url)
resmush_url(jpg_url, qlty = 10)
```

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