

# Package ‘GoogleImage2Array’

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**Type** Package

**Title** Create Array Data from 2D Image Thumbnails via Google Image Search

**Version** 0.99.2

**Date** 2021-09-28

**Depends** R (>= 4.1.0)

**Imports** xml2, rvest, EBImage, magrittr

**Suggests** testthat

**Description** Images are provided as an array dataset of 2D image thumbnails from Google Image Search <<https://www.google.com/search>>. This array data may be suitable for a training data of machine learning or deep learning as a first trial.

**License** Artistic-2.0

**URL** <https://github.com/kumeS/GoogleImage2Array>

**RoxygenNote** 7.1.2

**Encoding** UTF-8

**NeedsCompilation** no

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**Repository** CRAN

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display.array                    *display.array: display 4d array as a tiled image.*

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**Description**

This function is to create the R array/tensor from 2D image obtained from Google image search.

**Usage**

```
display.array(x, Save = FALSE, file_path = NULL)
```

**Arguments**

x                                a list obtained by the GoogleImage2array function.  
Save                             a logical. Whether to save images locally or not. if TRUE, save locally.  
file\_path                        a character. a directory to save the image file.

**Value**

image

**Author(s)**

Satoshi Kume

**Examples**

```
library(EBImage)

# Simple examples
query <- "persian cat"
CatImg <- GoogleImage2array(query)

#show images
display.array(CatImg)

query <- "Shiba inu"
DogImg <- GoogleImage2array(query)

#show images
display.array(DogImg)
```

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GoogleImage2array      *GoogleImage2array: create array from image thumbnails.*

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### Description

This function is to create the R array/tensor from 2D image obtained from Google image search. This function provides an array consisted of 20 images per run.

### Usage

```
GoogleImage2array(  
  Query,  
  wh = 64,  
  Col = TRUE,  
  Save = FALSE,  
  file_path = NULL,  
  gl = "us"  
)
```

### Arguments

Query	a character vector to search images
wh	a value of pixels in height and width.
Col	a logical. Whether to handle color or gray images. if TRUE, use color mode.
Save	a logical. Whether to save images locally or not. if TRUE, save locally.
file_path	a character. a directory to save the image file.
gl	a character to show a region information. ex. us, ja etc

### Value

array

### Author(s)

Satoshi Kume

### Examples

```
library(EBImage)  
  
# Simple examples  
query <- "persian cat"  
CatImg <- GoogleImage2array(query)  
  
#show info  
str(CatImg)
```

```
query <- "Shiba inu"  
DogImg <- GoogleImage2array(query)  
  
#show info  
str(DogImg)  
  
#Bind arrays  
ImgDat <- EBImage::abind(CatImg$array, DogImg$array, along=1)  
  
#show info  
str(ImgDat)
```

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