

Package ‘ROpenCVLite’

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Type Package

Title Install 'OpenCV'

Version 0.3.410

Maintainer Simon Garnier <garnier@njit.edu>

Description Installs 'OpenCV' for use by other packages. 'OpenCV' <<https://opencv.org/>> is library of programming functions mainly aimed at real-time computer vision. This 'Lite' version contains the stable base version of 'OpenCV' and does not contain any of its externally contributed modules.

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LazyData TRUE

Imports utils, devtools, pkgbuild, parallel

SystemRequirements cmake, C++11

NeedsCompilation yes

RoxygenNote 6.1.1

Biarch true

Encoding UTF-8

Suggests knitr, rmarkdown

VignetteBuilder knitr

URL <https://swarm-lab.github.io/ROpenCVLite/>,
<https://github.com/swarm-lab/ROpenCVLite>

BugReports <https://github.com/swarm-lab/ROpenCVLite/issues>

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R topics documented:

ROpenCVLite-package	2
installOpenCV	2
isOpenCVInstalled	3
opencvConfig	3
opencvVersion	4

Index	5
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ROpenCVLite-package	<i>ROpenCVLite: A package to install OpenCV within R</i>
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Description

This is a utility package that installs OpenCV within R for use by other packages. This Lite version does not contain any of the contributed modules of OpenCV.

Author(s)

Simon Garnier, <garnier@njit.edu>

See Also

Useful links:

- <https://swarm-lab.github.io/ROpenCVLite/>
- <https://github.com/swarm-lab/ROpenCVLite>
- Report bugs at <https://github.com/swarm-lab/ROpenCVLite/issues>

installOpenCV	<i>Install OpenCV</i>
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Description

This function will attempt to download, compile and install OpenCV on the system. This process will take several minutes.

Usage

```
installOpenCV()
```

Value

A boolean indicating whether OpenCV was or not installed on the system.

Author(s)

Simon Garnier, <garnier@njit.edu>

Examples

```
## Not run:  
installOpenCV()  
  
## End(Not run)
```

isOpenCVInstalled *Check OpenCV Installation*

Description

This functions checks that OpenCV is installed within the R library.

Usage

```
isOpenCVInstalled()
```

Value

A boolean indicating whether OpenCV was or not installed on the system.

Author(s)

Simon Garnier, <garnier@njit.edu>

Examples

```
isOpenCVInstalled()
```

opencvConfig *C/C++ configuration options*

Description

Determines the configuration options for compiling C/C++-based packages against OpenCV installed by [ROpenCVLite](#).

Usage

```
opencvConfig(output = "libs", arch = NULL)
```

Arguments

output	Either 'libs' for library configuration options or 'cflags' for C/C++ configuration flags.
arch	architecture relevant for Windows. If NULL, then R.version\$arch will be used.

Value

A concatenated character string (with `cat`) of the configuration options.

Author(s)

Simon Garnier, <garnier@njit.edu>

Examples

```
if (isOpenCVInstalled()) {
  opencvConfig()
  opencvConfig(output = "cflags")
  opencvConfig(arch = R.version$arch)
}
```

opencvVersion

OpenCV version

Description

Determines the version of OpenCV installed within R.

Usage

```
opencvVersion()
```

Value

A character string with the version of OpenCV installed by [ROpenCVLite](#).

Author(s)

Simon Garnier, <garnier@njit.edu>

Examples

```
if (isOpenCVInstalled()) {
  opencvVersion()
}
```

Index

`cat`, [4](#)

`installOpenCV`, [2](#)

`isOpenCVInstalled`, [3](#)

`opencvConfig`, [3](#)

`opencvVersion`, [4](#)

`ROpenCVLite`, [3](#), [4](#)

`ROpenCVLite (ROpenCVLite-package)`, [2](#)

`ROpenCVLite-package`, [2](#)