

Package ‘papayar’

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Type Package

Title View Medical Research Images using the Papaya JavaScript Library

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Description Users pass images and objects of class 'nifti' from the 'oro.nifti' package to a Papaya, an interactive lightweight JavaScript viewer. Although many packages can view individual slices or projections of image and matrix data, this package allows for quick and easy interactive browsing of images. The viewer is based off of the Mango software, which is a lightweight medical image viewer.

Imports neurobase, oro.nifti, servr, htmltools, utils

License GPL-3

URL <https://github.com/rii-mango/Papaya/>

BugReports <https://github.com/muschelli.j2/papayar/issues>

RoxygenNote 5.0.1.9000

NeedsCompilation no

Repository CRAN

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embed_papaya *Embed images with Papaya*

Description

Writes temporary images out from nifti objects or passes character filenames of images to papaya JS viewer

Usage

```
embed_papaya(images, outdir = NULL)
```

Arguments

images character filenames or nifti objects to be viewed
outdir output directory for index and all to go

Value

Output html

get_papaya_version *Get Papaya Version*

Description

Reads the papaya.js file installed and determines version and build

Usage

```
get_papaya_version()
```

Value

List of build and version, both characters

papaya *View images with Papaya*

Description

Writes temporary images out from nifti objects or passes character filenames of images to papaya JS viewer

Usage

```
papaya(images, outdir = NULL, ...)
```

Arguments

| | |
|--------|---|
| images | character filenames or nifti objects to be viewed |
| outdir | output directory for index and all to go |
| ... | Options to be passed to pass_papaya |

Value

Output directory where index.html, js, and copied nii.gz files

Examples

```
## Not run:
library(neurobase)
x = nifti(img = array(rnorm(100^3), dim= rep(100, 3)), dim=rep(100, 3), datatype=16)
thresh = datatyper(x > 1)
index.file = papaya(list(x, thresh))

## End(Not run)
```

papaya_div *Papaya Div element output*

Description

Get the necessary div output for embedding a papaya image

Usage

```
papaya_div()
```

Value

Character string

Examples

```
papaya_div()
```

```
pass_papaya
```

View images with Papaya

Description

Writes temporary images out from nifti objects or passes character filenames of images to papaya JS viewer

Usage

```
pass_papaya(L = NULL, outdir = NULL, daemon = FALSE,
            close_on_exit = TRUE, sleeper = 3, version = "0.8", build = "982")
```

Arguments

| | |
|---------------|---|
| L | list of arguments passed to papaya using params |
| outdir | output directory for index and all to go |
| daemon | Argument passed to server_config |
| close_on_exit | Should the server close once the function finishes? |
| sleeper | Time in seconds to sleep if close_on_exit = TRUE. This allows the server to start up. |
| version | Version of papaya.js and papaya.css to use |
| build | Build of papaya.js and papaya.css to use |

```
update_papaya_build
```

Update Papaya build version from GitHub

Description

Updates the papaya version in the papayar package to the most current on GitHub

Usage

```
update_papaya_build(type = c("standard", "minimal", "nodicom", "nojquery",
                             "standard-with-atlas-local", "standard-with-atlas"), verbose = TRUE)
```

Arguments

| | |
|---------|--------------------------------------|
| type | Type of release. Standard is default |
| verbose | Should download progress be shown? |

Value

Result of [get_papaya_version](#) after downloading

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