

Package: ggsegMiccai (via r-universe)

October 12, 2026

Title MICCAI 2012 Multi-Atlas Labeling Brain Atlas for the 'ggseg' Ecosystem

Version 1.0.0.9000

Description Neuromorphometrics maximum probability tissue labels, derived from the MICCAI 2012 Grand Challenge and Workshop on Multi-Atlas Labeling and distributed with SPM12, for the 'ggseg' ecosystem. Provides cortical and subcortical 'ggseg_atlas' objects with both 2D polygon geometry and 3D vertex indices, for use with 'ggseg' and 'ggseg3d'. The label data are released under CC BY-NC; MRI scans originate from the OASIS project and the labeled data are provided by Neuromorphometrics, Inc. under academic subscription.

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Encoding UTF-8

Depends R (>= 3.5)

Imports ggseg.formats

Suggests ggseg, ggseg3d, ggplot2, knitr, rmarkdown, testthat (>= 3.0.0), vdiffr

Remotes ggsegverse/ggseg

URL <https://github.com/ggsegverse/ggsegMiccai>

BugReports <https://github.com/ggsegverse/ggsegMiccai/issues>

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/testthat/edition 3

Config/Needs/website ggsegverse/ggseg.docs

Repository <https://ggsegverse.r-universe.dev>

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RemoteUrl <https://github.com/ggsegverse/ggsegMiccai>

RemoteRef HEAD

RemoteSha 2effed8be0766b42ee5a0b49043e3186f020d85f

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miccai_cortical	<i>MICCAI Cortical Atlas</i>
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Description

Cortical regions from the Neuromorphometrics maximum probability tissue labels distributed with SPM12, derived from the MICCAI 2012 Grand Challenge and Workshop on Multi-Atlas Labeling. Projected onto the fsaverage5 surface.

Usage

```
miccai_cortical()
```

Details

The label data are released under CC BY-NC. Credit the MRI scans as originating from the OASIS project and the labeled data as "provided by Neuromorphometrics, Inc. under academic subscription".

Value

A `ggseg.formats::ggseg_atlas` object (cortical).

References

Landman BA, Warfield SK (Eds.) (2012). *MICCAI 2012 Workshop on Multi-Atlas Labeling*.
 Marcus DS, et al. (2007). Open Access Series of Imaging Studies (OASIS): cross-sectional MRI data in young, middle aged, nondemented, and demented older adults. *Journal of Cognitive Neuroscience*, 19(9):1498-1507. doi:10.1162/jocn.2007.19.9.1498

See Also

Other ggseg_atlases: `miccai_subcortical()`

Examples

```
miccai_cortical()
```

miccai_subcortical	<i>MICCAI Subcortical Atlas</i>
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Description

Subcortical regions from the Neuromorphometrics maximum probability tissue labels distributed with SPM12, derived from the MICCAI 2012 Grand Challenge and Workshop on Multi-Atlas Labeling. Ventricles, white matter, CSF and vessels are not included.

Usage

```
miccai_subcortical()
```

Details

The label data are released under CC BY-NC. Credit the MRI scans as originating from the OASIS project and the labeled data as "provided by Neuromorphometrics, Inc. under academic subscription".

Value

A `ggseg.formats::ggseg_atlas` object (subcortical).

References

Landman BA, Warfield SK (Eds.) (2012). *MICCAI 2012 Workshop on Multi-Atlas Labeling*.
Marcus DS, et al. (2007). Open Access Series of Imaging Studies (OASIS): cross-sectional MRI data in young, middle aged, nondemented, and demented older adults. *Journal of Cognitive Neuroscience*, 19(9):1498-1507. doi:10.1162/jocn.2007.19.9.1498

See Also

Other ggseg_atlases: `miccai_cortical()`

Examples

```
miccai_subcortical()
```

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