

Package: ggsegAicha (via r-universe)

October 14, 2026

Title AICHA Atlas for the 'ggseg' Ecosystem

Version 2.1.0

Description AICHA (Atlas of Intrinsic Connectivity of Homotopic Areas) atlas for the 'ggseg' ecosystem. Provides cortical and subcortical 'ggseg_atlas' objects with 2D polygon geometry and 3D vertex or mesh data, for use with 'ggseg' and 'ggseg3d'.

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Encoding UTF-8

Depends R (>= 3.5)

Imports ggseg.formats

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

Remotes ggsegverse/ggseg

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

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

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

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

RemoteRef HEAD

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aicha

*AICHA Atlas (Atlas of Intrinsic Connectivity of Homotopic Areas)***Description**

Brain atlas for the AICHA cortical parcellation with 342 regions. The original volumetric atlas in MNI space was projected to fsaverage using the CBIG lab's registration fusion. Contains both 2D polygon geometry for `ggseg::geom_brain()` and 3D vertex indices for `ggseg3d::ggseg3d()`.

Usage

```
aicha()
```

Value

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

References

Joliot M, Jobard G, Naveau M, Delcroix N, Petit L, Zago L, ... & Tzourio-Mazoyer N (2015). AICHA: An atlas of intrinsic connectivity of homotopic areas. *Journal of Neuroscience Methods*, 254, 46-59. doi:10.1016/j.jneumeth.2015.07.013

See Also

Other `ggseg_atlases`: `aicha_sub()`

Examples

```
aicha()
## Not run: plot(aicha())
```

aicha_sub

*AICHA Subcortical Atlas***Description**

Subcortical half of the AICHA parcellation, with 20 parcels per hemisphere covering amygdala, caudate, pallidum, putamen and thalamus. Parcels are numbered within each structure, as AICHA names them. Drawn in four views, two coronal and two axial, with the surrounding brain in grey for anatomical context. Contains 2D polygon geometry for `ggseg::geom_brain()` and 3D mesh data for `ggseg3d::ggseg3d()`.

Usage

```
aicha_sub()
```

Details

The published subcortical volume was embedded in the fsaverage5 aseg through the fixed MNI152 registration, so the parcels are drawn in anatomical context rather than floating. Colour follows the structure: one hue per structure, with its numbered parcels in shades of that hue.

For the cortical half of AICHA see [aicha\(\)](#).

Value

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

References

Joliot M, Jobard G, Naveau M, Delcroix N, Petit L, Zago L, ... & Tzourio-Mazoyer N (2015). AICHA: An atlas of intrinsic connectivity of homotopic areas. *Journal of Neuroscience Methods*, 254, 46-59. doi:[10.1016/j.jneumeth.2015.07.013](#)

See Also

Other `ggseg_atlases`: [aicha\(\)](#)

Examples

```
aicha_sub()  
## Not run: plot(aicha_sub())
```

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