Package: ggsegJHU (via r-universe)

May 24, 2026

Title JHU White Matter Atlases for the 'ggseg' Ecosystem

Version 2.0.0

Description JHU and ICBM white matter atlases for the 'ggseg' ecosystem. Includes JHU probabilistic tracts (Hua et al. 2008), ICBM-DTI-81 white matter labels (Mori et al. 2005), and ICBM tract meshes. Provides unified 'ggseg_atlas' objects with 3D mesh geometry, for use with '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), vdiffr

Remotes ggsegverse/ggseg

URL https://github.com/ggsegverse/ggsegJHU

BugReports https://github.com/ggsegverse/ggsegJHU/issues

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/testthat/edition 3

Config/Needs/website ggsegverse/ggseg.docs

Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libicu-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev

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

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RemoteUrl https://github.com/ggsegverse/ggsegJHU

RemoteRef HEAD

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`jhu` *JHU White Matter Tract Atlas*

Description

Probabilistic white matter tract atlas based on the Johns Hopkins University DTI-based tractography.

Usage

```
jhu()
```

Value

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

References

Hua et al. (2008) Tract probability maps in stereotaxic spaces: analysis of white matter anatomy and tract-specific quantification. NeuroImage, 39(1):336-347 doi:10.1016/j.neuroimage.2007.07.053

Examples

```
jhu()
```

`jhu_tracts` *JHU White Matter Tract Atlas*

Description

JHU probabilistic white matter tract atlas with 20 tracts, thresholded at 25% probability. Contains 3D mesh geometry for `ggseg3d::ggseg3d()`.

Usage

```
jhu_tracts()
```

Value

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

References

Hua K, et al. (2008). Tract probability maps in stereotaxic spaces: analyses of white matter anatomy and tract-specific quantification. *NeuroImage*, 39(1):336-347. doi:10.1016/j.neuroimage.2007.07.053

See Also

Other ggseg_atlases: `jhu_wm()`

Other tract_atlases: `jhu_wm()`

Examples

```
jhu_tracts()
```

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jhu_wm *ICBM-DTI-81 White Matter Atlases*

Description

White matter label atlases derived from the ICBM DTI-81 probabilistic atlas of 81 normal subjects.

Usage

```
jhu_wm()

icbm()
```

Details

`jhu_wm()` provides the full 48-region atlas with both 2D and 3D geometry. `icbm()` is a legacy variant with 3D geometry only.

Value

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

References

Mori S, et al. (2005). MRI Atlas of Human White Matter. Elsevier. ISBN: 978-0444517418

Wakana S, et al. (2007). Reproducibility of quantitative tractography methods applied to cerebral white matter. *NeuroImage*, 36(3):630-644. doi:10.1016/j.neuroimage.2007.02.049

See Also

Other ggseg_atlases: `jhu_tracts()`

Other tract_atlases: `jhu_tracts()`

Examples

```
jhu_wm()
icbm()
```

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