Package: ggsegHO (via r-universe)

May 26, 2026

Title Harvard-Oxford Atlas for the 'ggseg' Ecosystem

Version 2.0.0

Description Harvard-Oxford cortical, subcortical, and cerebellar atlases for the 'ggseg' ecosystem. Includes the original Harvard-Oxford atlas (FSL) and the Harvard-Oxford Atlas 2.0 (HOA-2, Rushmore et al. 2022) as 'ggseg_atlas' objects with 2D polygon and 3D mesh geometry.

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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/ggsegHO

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

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/testthat/edition 3

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/ggsegHO

RemoteRef HEAD

RemoteSha 7e5f80571242008a35497ad856f57e5c6456d16f

Contents

`ho2_cereb` *Harvard-Oxford Atlas 2.0 Cerebellar*

Description

Cerebellar segmentation from the Harvard-Oxford Atlas 2.0 (HOA-2), including cerebellar cortex and white matter. Contains 2D polygon geometry for `ggseg::geom_brain()`.

Usage

```
ho2_cereb()
```

Value

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

References

Rushmore RJ, et al. (2022). Frontiers in Neuroanatomy 16:1035420. (doi:10.3389/fnana.2022.1035420)

See Also

Other ggseg_atlases: `ho2_cort()`, `ho2_sub()`, `hoCort()`, `hoSub()`

Examples

```
ho2_cereb()
plot(ho2_cereb())
```

ho2_cort *Harvard-Oxford Atlas 2.0 Cortical*

Description

Cortical parcellation with 49 regions per hemisphere from the Harvard-Oxford Atlas 2.0 (HOA-2), based on 50 HCP subjects. Contains 2D polygon geometry for `ggseg::geom_brain()` and 3D vertex indices for `ggseg3d::ggseg3d()`.

Usage

```
ho2_cort()
```

Value

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

References

Rushmore RJ, et al. (2022). Frontiers in Neuroanatomy 16:1035420. (doi:10.3389/fnana.2022.1035420)

See Also

Other ggseg_atlases: `ho2_cereb()`, `ho2_sub()`, `hoCort()`, `hoSub()`

Other cortical_atlases: `hoCort()`

Examples

```
ho2_cort()
plot(ho2_cort())
```

ho2_sub *Harvard-Oxford Atlas 2.0 Subcortical*

Description

Subcortical segmentation with 19 structures from the Harvard-Oxford Atlas 2.0 (HOA-2), based on 100 HCP subjects. Contains 2D polygon geometry for `ggseg::geom_brain()` and 3D mesh data for `ggseg3d::ggseg3d()`.

Usage

```
ho2_sub()
```

Value

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

References

Rushmore RJ, et al. (2022). Frontiers in Neuroanatomy 16:1035420. (doi:10.3389/fnana.2022.1035420)

See Also

Other ggseg_atlases: `ho2_cereb()`, `ho2_cort()`, `hoCort()`, `hoSub()`

Other subcortical_atlases: `hoSub()`

Examples

```
ho2_sub()
plot(ho2_sub())
```

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hoCort *Harvard-Oxford Cortical Atlas*

Description

Cortical parcellation with 48 regions per hemisphere from the Harvard-Oxford atlas distributed with FSL. Contains 2D polygon geometry for `ggseg::geom_brain()` and 3D vertex indices for `ggseg3d::ggseg3d()`.

Usage

```
hoCort()
```

Value

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

References

Makris, et al. (2006) Schizophrenia research 83(2-3):155-151 (doi:10.1016/j.schres.2005.11.020)

See Also

Other ggseg_atlases: `ho2_cereb()`, `ho2_cort()`, `ho2_sub()`, `hoSub()`

Other cortical_atlases: `ho2_cort()`

Examples

```
hoCort()
plot(hoCort())
```

hoSub *Harvard-Oxford Subcortical Atlas*

Description

Subcortical segmentation from the Harvard-Oxford atlas distributed with FSL. Contains 2D polygon geometry for `ggseg::geom_brain()` and 3D mesh data for `ggseg3d::ggseg3d()`.

Usage

```
hoSub()
```

Value

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

References

Makris, et al. (2006) Schizophrenia research 83(2-3):155-151 (doi:10.1016/j.schres.2005.11.020)

See Also

Other ggseg_atlases: `ho2_cereb()`, `ho2_cort()`, `ho2_sub()`, `hoCort()`

Other subcortical_atlases: `ho2_sub()`

Examples

```
hoSub()
plot(hoSub())
```

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