

Package: ggsegFreeSurfer (via r-universe)

May 23, 2026

Title FreeSurfer Brain Atlases for the 'ggseg' Ecosystem

Version 1.0.0

Description FreeSurfer cortical and subcortical brain atlases for the 'ggseg' ecosystem. Includes the Desikan-Killiany-Tourville cortical atlas (Klein & Tourville 2012), the Destrieux cortical atlas (Destrieux et al. 2010), and the HCP subcortical atlas with anterior/posterior hippocampus subdivisions. Provides unified 'ggseg_atlas' objects with 2D polygon geometry and 3D mesh or vertex 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/ggsegFreeSurfer>

BugReports <https://github.com/ggsegverse/ggsegFreeSurfer/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/ggsegFreeSurfer>

RemoteRef HEAD

RemoteSha b45df61f83736739554b9896dc9cd1c20df8856d

Contents

destrieux	2
dkt	3
hcpa	3
Index	5

destrieux	<i>Destrieux Cortical Atlas</i>
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Description

Brain atlas for the Destrieux cortical parcellation (aparc.a2009s) with 75 regions per hemisphere. Contains 2D polygon geometry for `ggseg::geom_brain()`.

Usage

```
destrieux()
```

Value

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

References

Destrieux C, Fischl B, Dale A, Halgren E (2010). Automatic parcellation of human cortical gyri and sulci using standard anatomical nomenclature. *NeuroImage*, 53(1), 1-15. doi:10.1016/j.neuroimage.2010.06.010

See Also

Other `ggseg_atlases`: `dkt()`, `hcpa()`
 Other `cortical_atlases`: `dkt()`
 Other `freesurfer_atlases`: `dkt()`, `hcpa()`

Examples

```
destrieux()
plot(destrieux())
```

`dkt`*Desikan-Killiany-Tourville Cortical Atlas*

Description

Cortical parcellation with 32 regions per hemisphere based on the Desikan-Killiany-Tourville labeling protocol. Contains both 2D polygon geometry for `ggseg::geom_brain()` and 3D vertex indices for `ggseg3d::ggseg3d()`.

Usage

```
dkt()
```

Value

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

References

Klein A, Tourville J (2012). 101 labeled brain images and a consistent human cortical labeling protocol. *Frontiers in Neuroscience*, 6:171. doi:10.3389/fnins.2012.00171

See Also

Other `ggseg_atlases`: `destrieux()`, `hcpa()`

Other `cortical_atlases`: `destrieux()`

Other `freesurfer_atlases`: `destrieux()`, `hcpa()`

Examples

```
dkt()
plot(dkt())
```

`hcpa`*HCP Subcortical Atlas*

Description

Human Connectome Project subcortical atlas with `aseg` regions and anterior/posterior hippocampus subdivisions. Contains 3D mesh geometry for `ggseg3d::ggseg3d()`.

Usage

```
hcpa()
```

Value

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

See Also

Other `ggseg_atlases`: [destrieux\(\)](#), [dkt\(\)](#)

Other `freesurfer_atlases`: [destrieux\(\)](#), [dkt\(\)](#)

Examples

```
hcpa()
```

Index

* **cortical_atlases**

destrieux, 2

dkt, 3

* **freesurfer_atlases**

destrieux, 2

dkt, 3

hcpa, 3

* **ggseg_atlases**

destrieux, 2

dkt, 3

hcpa, 3

* **subcortical_atlases**

hcpa, 3

destrieux, 2, 3, 4

dkt, 2, 3, 4

ggseg.formats::ggseg_atlas, 2–4

ggseg3d::ggseg3d(), 3

ggseg::geom_brain(), 2, 3

hcpa, 2, 3, 3