

Package: ggsegSchaefer (via r-universe)

September 8, 2024

Title Schaefer datasets for the ggseg-plotting tool

Version 2.0.4

Description This is a support package for the ggseg, and ggseg3d packages. It contains the Schaefer atlases to plot using functions from those two packages.

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Encoding UTF-8

RoxygenNote 7.1.1

Depends R (>= 3.5.0)

LazyData true

LazyDataCompression xz

Imports ggplot2, ggseg, ggseg3d

Suggests tidyverse, knitr, usethis, rmarkdown, covr, testthat (>= 2.1.0), devtools, renv, freesurfer, roxygen2

Enhances ggsegExtra

VignetteBuilder knitr

Remotes ggseg/ggsegExtra

URL <https://github.com/LCBC-UiO/ggsegSchaefer>

BugReports <https://github.com/LCBC-UiO/ggsegSchaefer/issues>

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

RemoteUrl <https://github.com/ggseg/ggsegSchaefer>

RemoteRef HEAD

RemoteSha 91bb220b636c99940a5c1050cc1de76d26c7aee3

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`schaefer17`*Local-Global 17-Network Parcellation of the Human Cerebral Cortex*

Description

Coordinate data for the Schaefer et al. (2018) cortical atlas, with 100-1000 regions on the cortical surface of the brain, aligned with 17 previously described functional networks (Yeo et al., 2011).

Usage`data(schaefer17_100)``schaefer17_200``schaefer17_300``schaefer17_400``schaefer17_500``schaefer17_600``schaefer17_700``schaefer17_800``schaefer17_900``schaefer17_1000`**Format**

An object of class `brain_atlas` of length 4.

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An object of class `brain_atlas` of length 4.

Details

- schaefer17_100 100 parcellation of the 17 networks
- schaefer17_200 200 parcellation of the 17 networks
- schaefer17_300 300 parcellation of the 17 networks
- schaefer17_400 400 parcellation of the 17 networks
- schaefer17_500 500 parcellation of the 17 networks
- schaefer17_600 600 parcellation of the 17 networks
- schaefer17_700 700 parcellation of the 17 networks
- schaefer17_800 800 parcellation of the 17 networks
- schaefer17_900 900 parcellation of the 17 networks
- schaefer17_1000 1000 parcellation of the 17 networks

References

Schaefer et al. (2018) Cereb Cortex. 2018 Sep 1;28(9):3095-3114. doi: 10.1093/cercor/bhx179 (PubMed)

See Also

Other ggseg_atlases: [schaefer7](#)

Examples

```
data(schaefer17_100)
data(schaefer17_200)
data(schaefer17_300)
data(schaefer17_400)
data(schaefer17_500)
data(schaefer17_600)
data(schaefer17_700)
data(schaefer17_800)
data(schaefer17_900)
data(schaefer17_1000)
```

schaefer17_3d

Local-Global 17-Network Parcellation of the Human Cerebral Cortex

Description

Mesh data for the 17 resting-state networks of the Schaefer et al. (2018) networks.

Usage

```
data(schaefer17_400_3d)

schaefer17_100_3d

schaefer17_200_3d

schaefer17_300_3d

schaefer17_500_3d

schaefer17_600_3d

schaefer17_700_3d

schaefer17_800_3d

schaefer17_900_3d

schaefer17_1000_3d
```

Format

A tibble with 4 observations and a nested data.frame

surf type of surface ('inflated' or 'white')

hemi hemisphere ('left' or 'right')

data data.frame of necessary variables for plotting

atlas String. atlas name

roi numbered region from surface

annot concatenated region name

label label 'hemi_annot' of the region

mesh list of meshes in two lists: vb and it

area name of area in full

colour HEX colour of region

An object of class ggseg3d_atlas (inherits from tbl_df, tbl, data.frame) with 2 rows and 4 columns.

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An object of class `ggseg3d_atlas` (inherits from `tbl_df`, `tbl`, `data.frame`) with 2 rows and 4 columns.

References

Schaefer et al. (2018) Cereb Cortex. 2018 Sep 1;28(9):3095-3114. doi: 10.1093/cercor/bhx179 (PubMed)

See Also

Other `ggseg3d_atlas`s: [schaefer7_3d](#)

Examples

```
data(schaefer17_400_3d)
```

schaefer7

Local-Global 7-Network Parcellation of the Human Cerebral Cortex

Description

Coordinate data for the Schaefer et al. (2018) cortical atlas, with 100-1000 regions on the cortical surface of the brain, aligned with 7 previously described functional networks (Yeo et al., 2011).

Usage

```
data(schaefer7_100)
```

```
schaefer7_200
```

```
schaefer7_300
```

```
schaefer7_400
```

```
schaefer7_500
```

```
schaefer7_600
```

schaefer7_700

schaefer7_800

schaefer7_900

schaefer7_1000

Format

An object of class `brain_atlas` of length 4.

An object of class `brain_atlas` of length 4.

An object of class `brain_atlas` of length 4.

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An object of class `brain_atlas` of length 4.

References

Schaefer et al. (2018) Cereb Cortex. 2018 Sep 1;28(9):3095-3114. doi: 10.1093/cercor/bhx179 (PubMed)

- schaefer7_100 100 parellation of the 7 networks
- schaefer7_200 200 parellation of the 7 networks
- schaefer7_300 300 parellation of the 7 networks
- schaefer7_400 400 parellation of the 7 networks
- schaefer7_500 500 parellation of the 7 networks
- schaefer7_600 600 parellation of the 7 networks
- schaefer7_700 700 parellation of the 7 networks
- schaefer7_900 800 parellation of the 7 networks
- schaefer7_900 900 parellation of the 7 networks
- schaefer7_1000 1000 parellation of th 7 networks

See Also

Other `ggseg_atlases`: [schaefer17](#)

Examples

```
data(schaefer7_100)
```

`schaefer7_3d`*Local-Global 7-Network Parcellation of the Human Cerebral Cortex*

Description

Mesh data for the 7 resting-state networks of the Schaefer et al. (2018) networks.

Usage`data(schaefer7_400_3d)``schaefer7_100_3d``schaefer7_200_3d``schaefer7_300_3d``schaefer7_500_3d``schaefer7_600_3d``schaefer7_700_3d``schaefer7_800_3d``schaefer7_900_3d``schaefer7_1000_3d`**Format**

A tibble with 4 observations and a nested data.frame

surf type of surface ('inflated' or 'white')

hemi hemisphere ('left' or 'right')

data data.frame of necessary variables for plotting

atlas String. atlas name

roi numbered region from surface

annot concatenated region name

label label 'hemi_annot' of the region

mesh list of meshes in two lists: vb and it

area name of area in full

colour HEX colour of region

An object of class `ggseg3d_atlas` (inherits from `tbl_df`, `tbl`, `data.frame`) with 2 rows and 4 columns.

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An object of class `ggseg3d_atlas` (inherits from `tbl_df`, `tbl`, `data.frame`) with 2 rows and 4 columns.

References

Schaefer et al. (2018) Cereb Cortex. 2018 Sep 1;28(9):3095-3114. doi: 10.1093/cercor/bhx179 (PubMed)

See Also

Other `ggseg3d_atlas`s: [schaefer17_3d](#)

Examples

```
data(schaefer7_400_3d)
```


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