Package: ggsegCerebellum (via r-universe)

May 27, 2026

Title Cerebellar Atlases for the 'ggsegverse' Ecosystem

Version 0.0.1

Description Collection of cerebellar parcellation atlases for the 'ggsegverse' ecosystem. Includes anatomical (Diedrichsen 2009), resting-state network (Buckner 2011, Ji 2019, Xue 2021), task-based (King/MDTB 2019), and hierarchical functional (Nettekoven 2024) parcellations. All atlases derived from the DiedrichsenLab cerebellar atlas collection.

License MIT + file LICENSE

Encoding UTF-8

Depends R (>= 4.1)

Imports ggseg.formats

Suggests ggseg, ggplot2, testthat (>= 3.0.0), vdiffr

Remotes ggsegverse/ggseg

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

BugReports https://github.com/ggsegverse/ggsegCerebellum/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

Date/Publication 2026-04-27 10:08:34 UTC

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

RemoteRef HEAD

RemoteSha 733686991afe595e189efa90fa43abbe2e7ac535

Contents

`buckner17` *Buckner 17-Network Cerebellar Atlas*

Description

Cerebellar parcellation into Yeo 17 resting-state functional networks from Buckner et al. (2011).

Usage

```
buckner17()
```

Value

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

References

Buckner RL, et al. (2011). The organization of the human cerebellum estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 106(5):2322-2345. doi:10.1152/jn.00339.2011

See Also

Other ggseg_atlases: `buckner7()`, `ji10()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Other cerebellar_atlases: `buckner7()`, `ji10()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Examples

```
buckner17()
plot(buckner17())
```

buckner7 *Buckner 7-Network Cerebellar Atlas*

Description

Cerebellar parcellation into Yeo 7 resting-state functional networks from Buckner et al. (2011).

Usage

```
buckner7()
```

Value

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

References

Buckner RL, et al. (2011). The organization of the human cerebellum estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 106(5):2322-2345. doi:10.1152/jn.00339.2011

See Also

Other ggseg_atlases: `buckner17()`, `ji10()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Other cerebellar_atlases: `buckner17()`, `ji10()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Examples

```
buckner7()
plot(buckner7())
```

ji10 *Ji 10-Network Cerebellar Atlas*

Description

Cerebellar parcellation into 10 subcortical functional networks from Ji et al. (2019).

Usage

```
ji10()
```

Value

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

References

Ji JL, et al. (2019). Mapping the human brain's cortical-subcortical functional network organization. *NeuroImage*, 185:35-57. doi:10.1016/j.neuroimage.2018.10.006

See Also

Other ggseg_atlases: `buckner17()`, `buckner7()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Other cerebellar_atlases: `buckner17()`, `buckner7()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Examples

```
ji10()
plot(ji10())
```

---

mdtb10 *MDTB 10-Region Cerebellar Atlas*

Description

Multi-Domain Task Battery cerebellar parcellation with 10 task-based functional regions from King et al. (2019).

Usage

```
mdtb10()
```

Value

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

References

King M, et al. (2019). Functional boundaries in the human cerebellum revealed by a multi-domain task battery. *Nature Neuroscience*, 22(8):1371-1378. doi:10.1038/s415930190436x

See Also

Other ggseg_atlases: `buckner17()`, `buckner7()`, `ji10()`, `nettekoven32()`, `xue10()`

Other cerebellar_atlases: `buckner17()`, `buckner7()`, `ji10()`, `nettekoven32()`, `xue10()`

Examples

```
mdtb10()
plot(mdtb10())
```

nettekoven32 *Nettekoven Cerebellar Functional Atlases*

Description

Hierarchical symmetric cerebellar parcellations from Nettekoven et al. (2024). Available as 32-region and 68-region variants. Regions are coded by functional domain: Motor (M), Auditory (A), Default mode (D), Somatosensory (S), with left (L) and right (R) hemispheric labels.

Usage

```
nettekoven32()

nettekoven68()
```

Value

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

References

Nettekoven C, et al. (2024). A hierarchical atlas of the human cerebellum for functional precision mapping. *Nature Communications*, 15:8376. doi:10.1038/s41467024523 71w

See Also

Other ggseg_atlases: `buckner17()`, `buckner7()`, `ji10()`, `mdtb10()`, `xue10()`

Other cerebellar_atlases: `buckner17()`, `buckner7()`, `ji10()`, `mdtb10()`, `xue10()`

Examples

```
nettekoven32()
plot(nettekoven32())
nettekoven68()
plot(nettekoven68())
```

xue10 *Xue 10-Network Cerebellar Atlas*

Description

Individual resting-state cerebellar parcellation with 10 networks from Xue et al. (2021).

Usage

```
xue10()
```

Value

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

References

Xue A, et al. (2021). Local-global parcellation of the human cerebellum from intrinsic functional connectivity. *Cerebral Cortex*, 31(2):764-778. doi:10.1093/cercor/bhaa253

See Also

Other ggseg_atlases: `buckner17()`, `buckner7()`, `ji10()`, `mdtb10()`, `nettekoven32()`

Other cerebellar_atlases: `buckner17()`, `buckner7()`, `ji10()`, `mdtb10()`, `nettekoven32()`

Examples

```
xue10()
plot(xue10())
```

Index