

Package: ggsegCerebellum (via r-universe)

October 12, 2026

Title Cerebellar Atlases for the 'ggsegverse' Ecosystem

Version 0.0.2

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.

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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

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

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

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buckner17	<i>Buckner 17-Network Cerebellar Atlas</i>
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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_atlas`s: `buckner17()`, `ji10()`, `mdtb10()`, `nettekoven32()`, `xue10()`

Other cerebellar_atlas: `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](https://doi.org/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](https://doi.org/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	<i>Nettekoven Cerebellar Functional Atlases</i>
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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/s4146702452371w](https://doi.org/10.1038/s4146702452371w)

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	<i>Xue 10-Network Cerebellar Atlas</i>
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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](https://doi.org/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())
```

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