

Package ‘ggseg.formats’

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Title Brain Atlas Data Structures for the 'ggseg' Ecosystem

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Description Provides the 'ggseg_atlas' S3 class used across the 'ggseg' ecosystem for 2D and 3D brain visualisation. Ships three bundled atlases ('Desikan-Killiany', 'FreeSurfer' 'aseg', 'TRACULA') and functions for querying, subsetting, renaming, and enriching atlas objects. Also includes readers for 'FreeSurfer' statistics files.

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<https://ggsegverse.github.io/ggseg.formats/>

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Contents

aseg	2
as_ggseg_atlas	4
atlas_labels	4
atlas_manipulation	5
atlas_meshes	7
atlas_palette	8
atlas_regions	8
atlas_sf	9
atlas_type	9
atlas_vertices	10
atlas_views	10
convert_legacy_brain_atlas	11
dk	12
get_brain_mesh	14
ggseg_atlas	14
ggseg_data_cortical	15
ggseg_data_subcortical	16
ggseg_data_tract	17
is_ggseg3d_atlas	18
is_ggseg_atlas	18
read_atlas_files	19
read_freesurfer_stats	20
read_freesurfer_table	21
tracula	21
Index	23

aseg

FreeSurfer Automatic Subcortical Segmentation Atlas

Description

Returns the FreeSurfer automatic subcortical segmentation (aseg) atlas containing deep brain structures including the thalamus, caudate, putamen, pallidum, hippocampus, amygdala, accumbens, and ventricles.

Usage

aseg()

Details

This atlas is derived from FreeSurfer's aseg.mgz volumetric segmentation. It works with both ggseg (2D slice views) and ggseg3d (3D mesh visualizations) from a single object.

Value

A `ggseg_atlas` object with components:

atlas Character. Atlas name ("aseg")

type Character. Atlas type ("subcortical")

palette Named character vector of colours for each region

data A `ggseg_data_subcortical` object containing:

meshes Data frame with label and mesh columns

sf Simple features data frame for 2D rendering

Structures

The atlas contains bilateral structures:

- Thalamus
- Caudate
- Putamen
- Pallidum (globus pallidus)
- Hippocampus
- Amygdala
- Accumbens (nucleus accumbens)
- Ventral diencephalon

Plus midline and ventricular structures:

- Lateral ventricles
- Third ventricle
- Fourth ventricle
- Brain stem
- Cerebellar cortex
- Cerebellar white matter

References

Fischl B, Salat DH, Busa E, et al. (2002). Whole brain segmentation: automated labeling of neuroanatomical structures in the human brain. *Neuron*, 33(3):341-355. doi:[10.1016/S08966273\(02\)00569-X](https://doi.org/10.1016/S08966273(02)00569-X)

See Also

`dk()` for cortical parcellation, `ggseg_atlas()` for the atlas class constructor

Other `ggseg_atlas`s: `dk()`, `tracula()`

Examples

```
aseg()
```

```
atlas_regions(aseg())
```

as_ggseg_atlas *Coerce to ggseg atlas*

Description

Coerce to ggseg atlas

Usage

```
as_ggseg_atlas(x)
```

```
as_brain_atlas(x)
```

Arguments

x object to make into a ggseg_atlas

Value

an object of class 'ggseg_atlas'

Examples

```
atlas <- as_ggseg_atlas(dk())  
is_ggseg_atlas(atlas)
```

atlas_labels *Extract unique labels from an atlas*

Description

Extract unique labels from an atlas

Usage

```
atlas_labels(x)
```

```
brain_labels(x)
```

Arguments

x brain atlas

Value

Character vector of atlas region labels

Examples

```
atlas_labels(dk())
atlas_labels(aseg())
```

atlas_manipulation *Manipulate brain atlas regions and views*

Description

Functions for modifying brain atlas objects. These cover three areas:

Usage

```
atlas_region_remove(atlas, pattern, match_on = c("region", "label"))
atlas_region_contextual(atlas, pattern, match_on = c("region", "label"))
atlas_region_rename(atlas, pattern, replacement)
atlas_region_keep(atlas, pattern, match_on = c("region", "label"))
atlas_core_add(atlas, data, by = "region")
atlas_view_remove(atlas, views)
atlas_view_keep(atlas, views)
atlas_view_remove_region(
  atlas,
  pattern,
  match_on = c("label", "region"),
  views = NULL
)
atlas_view_remove_small(atlas, min_area, views = NULL)
atlas_view_gather(atlas, gap = 0.15)
atlas_view_reorder(atlas, order, gap = 0.15)
```

Arguments

atlas	A ggseg_atlas object
pattern	Character pattern to match. Uses <code>grepl(..., ignore.case = TRUE)</code> .
match_on	Column to match against: "region" or "label".

replacement	For atlas_region_rename(): replacement string or function.
data	For atlas_core_add(): data.frame with metadata to join.
by	For atlas_core_add(): column(s) to join by. Default "region".
views	For view functions: character vector of view names or patterns. Multiple values collapsed with " " for matching.
min_area	For atlas_view_remove_small(): minimum polygon area to keep. Context geometries are never removed.
gap	Proportional gap between views (default 0.15 = 15% of max width).
order	For atlas_view_reorder(): character vector of desired view order. Unspecified views appended at end.

Details

Region manipulation modifies which regions are active in the atlas:

- atlas_region_remove(): completely remove regions
- atlas_region_contextual(): keep geometry but remove from core/palette
- atlas_region_rename(): rename regions in core
- atlas_region_keep(): keep only matching regions

View manipulation modifies the 2D sf geometry data:

- atlas_view_remove(): remove entire views
- atlas_view_keep(): keep only matching views
- atlas_view_remove_region(): remove specific region geometry from sf
- atlas_view_remove_small(): remove small polygon fragments
- atlas_view_gather(): reposition views to close gaps
- atlas_view_reorder(): change view order

Core manipulation modifies atlas metadata:

- atlas_core_add(): join additional metadata columns

Value

Modified ggseg_atlas object

Functions

- atlas_region_contextual(): Keep geometry for visual context but remove from core, palette, and 3D data. Context geometries render grey and don't appear in legends.
- atlas_region_rename(): Rename regions matching a pattern. Only affects the region column, not label. If replacement is a function, it receives matched names and returns new names.
- atlas_region_keep(): Keep only matching regions. Non-matching regions are removed from core, palette, and 3D data but sf geometry is preserved for surface continuity.

- `atlas_core_add()`: Join additional metadata columns to atlas core.
- `atlas_view_remove()`: Remove views matching pattern from sf data.
- `atlas_view_keep()`: Keep only views matching pattern.
- `atlas_view_remove_region()`: Remove specific region geometry from sf data only. Core, palette, and 3D data are unchanged.
- `atlas_view_remove_small()`: Remove region geometries below a minimum area threshold. Context geometries (labels not in core) are never removed. Optionally scope to specific views.
- `atlas_view_gather()`: Reposition remaining views to close gaps after view removal.
- `atlas_view_reorder()`: Reorder views and reposition. Views not in order are appended at end.

Examples

```
dk() |>
  atlas_region_remove("bankssts") |>
  atlas_region_keep("frontal", match_on = "region")
```

atlas_meshes

Get atlas meshes for 3D rendering

Description

Returns meshes data joined with core region info and palette colours. Used for subcortical and tract atlases.

Usage

```
atlas_meshes(atlas)
```

Arguments

`atlas` a `ggseg_atlas` object

Value

data.frame with meshes ready for 3D rendering

Examples

```
meshes <- atlas_meshes(aseg())
head(meshes)
```

atlas_palette	<i>Get atlas palette</i>
---------------	--------------------------

Description

Retrieves the colour palette from a brain atlas.

Usage

```
atlas_palette(name = "dk", ...)
```

Arguments

name	Character name of atlas (e.g., "dk", "aseg") or a ggseg_atlas object
...	Additional arguments (unused)

Value

Named character vector of colours

Examples

```
atlas_palette(aseg())  
atlas_palette(dk())
```

atlas_regions	<i>Extract unique region names from an atlas</i>
---------------	--

Description

Extract unique region names from an atlas

Usage

```
atlas_regions(x)  
  
brain_regions(x)
```

Arguments

x	brain atlas
---	-------------

Value

Character vector of region names

Examples

```
atlas_regions(dk())
atlas_regions(aseg())
```

atlas_sf	<i>Get atlas data for 2D rendering</i>
----------	--

Description

Returns sf data joined with core region info and palette colours.

Usage

```
atlas_sf(atlas)
```

Arguments

atlas a ggseg_atlas object

Value

sf data.frame ready for plotting

Examples

```
sf_data <- atlas_sf(dk())
head(sf_data)
```

atlas_type	<i>Detect atlas type</i>
------------	--------------------------

Description

Detect atlas type

Usage

```
atlas_type(x)
```

Arguments

x brain atlas object

Value

Character string: "cortical", "subcortical", or "tract"

Examples

```
atlas_type(dk())
atlas_type(aseg())
atlas_type(tracula())
```

atlas_vertices	<i>Get atlas vertices for 3D rendering</i>
----------------	--

Description

Returns vertices data joined with core region info and palette colours. Used for cortical atlases with vertex-based rendering.

Usage

```
atlas_vertices(atlas)
```

Arguments

atlas a ggseg_atlas object

Value

data.frame with vertices ready for 3D rendering

Examples

```
verts <- atlas_vertices(dk())
head(verts)
```

atlas_views	<i>Get available views in atlas</i>
-------------	-------------------------------------

Description

Get available views in atlas

Usage

```
atlas_views(atlas)
```

```
brain_views(atlas)
```

Arguments

atlas A ggseg_atlas object

Value

Character vector of view names, or NULL if no sf data

Examples

```
atlas_views(aseg())
atlas_views(tracula())
```

```
convert_legacy_brain_atlas
```

Convert legacy ggseg atlases to ggseg_atlas format

Description**[Superseded]**

Convert old-style ggseg (2D) and ggseg3d (3D) atlases into the new ggseg_atlas format. This is a bridge function for working with existing atlases during the transition period.

For new atlases, use ggsegExtra::create_cortical_atlas() or ggsegExtra::create_subcortical_atlas() instead - they produce better results with proper vertex indices.

The function handles three scenarios:

- **Both 2D and 3D:** Merges geometry with vertex data
- **3D only:** Extracts vertices, infers indices from mesh coordinates
- **2D only:** Keeps geometry, 3D rendering unavailable

If the 3D atlas already contains vertex indices (newer ggseg3d atlases), those are preserved. Otherwise, vertex indices are inferred from mesh coordinates using hash-based matching (no FreeSurfer needed).

Usage

```
convert_legacy_brain_atlas(
  atlas_2d = NULL,
  atlas_3d = NULL,
  atlas_name = NULL,
  type = NULL,
  surface = "inflated",
  brain_meshes = NULL
)
```

```
unify_legacy_atlases(
  atlas_2d = NULL,
  atlas_3d = NULL,
  atlas_name = NULL,
  type = NULL,
```

```

    surface = "inflated",
    brain_meshes = NULL
  )

```

Arguments

atlas_2d	A ggseg_atlas (or legacy brain_atlas) with 2D geometry, or NULL.
atlas_3d	A ggseg3d_atlas with mesh data, or NULL.
atlas_name	Name for the output atlas. If NULL, derived from input.
type	Atlas type: "cortical" or "subcortical". If NULL, inferred from the input atlases.
surface	Which surface to match against when inferring vertices (e.g., "inflated"). Must match the 3D atlas surface exactly.
brain_meshes	Optional user-supplied brain meshes for vertex inference.

Value

A ggseg_atlas object.

Examples

```
new_atlas <- convert_legacy_brain_atlas(atlas_2d = dk())
```

dk

Desikan-Killiany Cortical Atlas

Description

Returns the Desikan-Killiany cortical parcellation atlas with 34 regions per hemisphere (68 total) on the cortical surface.

Usage

```
dk()
```

Details

This atlas is based on the FreeSurfer `aparc` annotation and is one of the most widely used cortical parcellations in neuroimaging research.

The atlas works with both `ggseg` (2D polygon plots) and `ggseg3d` (3D mesh visualizations) from a single object.

Value

A `ggseg_atlas` object with components:

atlas Character. Atlas name ("dk")

type Character. Atlas type ("cortical")

palette Named character vector of colours for each region

data A `ggseg_data_cortical` object containing:

vertices Data frame with label and vertices columns

sf Simple features data frame for 2D rendering

Regions

The atlas contains 34 regions per hemisphere including: banks of superior temporal sulcus, caudal anterior cingulate, caudal middle frontal, cuneus, entorhinal, fusiform, inferior parietal, inferior temporal, isthmus cingulate, lateral occipital, lateral orbitofrontal, lingual, medial orbitofrontal, middle temporal, parahippocampal, paracentral, pars opercularis, pars orbitalis, pars triangularis, pericalcarine, postcentral, posterior cingulate, precentral, precuneus, rostral anterior cingulate, rostral middle frontal, superior frontal, superior parietal, superior temporal, supramarginal, frontal pole, temporal pole, transverse temporal, and insula.

References

Desikan RS, Segonne F, Fischl B, et al. (2006). An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. *NeuroImage*, 31(3):968-980. doi:[10.1016/j.neuroimage.2006.01.021](https://doi.org/10.1016/j.neuroimage.2006.01.021)

Fischl B, van der Kouwe A, Destrieux C, et al. (2004). Automatically parcellating the human cerebral cortex. *Cerebral Cortex*, 14(1):11-22. doi:[10.1093/cercor/bhg087](https://doi.org/10.1093/cercor/bhg087)

See Also

[aseg\(\)](#) for subcortical structures, [ggseg_atlas\(\)](#) for the atlas class constructor

Other `ggseg_atlases`: [aseg\(\)](#), [tracula\(\)](#)

Examples

```
dk()
```

```
atlas_regions(dk())
```

```
atlas_labels(dk())
```

get_brain_mesh	<i>Get brain surface mesh</i>
----------------	-------------------------------

Description

Retrieves a brain surface mesh for the specified hemisphere and surface type. By default, provides the inflated fsaverage5 surface from internal data. Other surfaces (pial, white, semi-inflated) require the ggseg3d package.

Usage

```
get_brain_mesh(
  hemisphere = c("lh", "rh"),
  surface = "inflated",
  brain_meshes = NULL
)
```

Arguments

hemisphere	"lh" or "rh"
surface	Surface type (default "inflated"). Other surfaces require ggseg3d or a custom brain_meshes argument.
brain_meshes	Optional user-supplied mesh data. Accepts either list(lh = list(vertices, faces), rh = ...) or the legacy list(lh_inflated = list(vertices, faces), ...) format.

Value

A list with vertices (data.frame with x, y, z) and faces (data.frame with i, j, k), or NULL if the mesh is not available.

Examples

```
mesh <- get_brain_mesh("lh")
head(mesh$vertices)
```

ggseg_atlas	<i>Constructor for ggseg atlas</i>
-------------	------------------------------------

Description

Creates an object of class 'ggseg_atlas' for plotting brain parcellations using ggseg (2D) and ggseg3d (3D).

Usage

```
ggseg_atlas(atlas, type, core, data, palette = NULL)
```

```
brain_atlas(atlas, type, core, data, palette = NULL)
```

Arguments

atlas	atlas short name, length one
type	atlas type: "cortical", "subcortical", or "tract"
core	data.frame with required columns hemi, region, label (one row per unique region). May contain additional columns for grouping or metadata (e.g., lobe, network, Brodmann area).
data	a ggseg_atlas_data object created by <code>ggseg_data_cortical()</code> , <code>ggseg_data_subcortical()</code> , or <code>ggseg_data_tract()</code> . Must match the specified type.
palette	named character vector of colours keyed by label

Value

an object of class 'ggseg_atlas'

Examples

```
core <- data.frame(
  hemi = c("left", "left"),
  region = c("region1", "region2"),
  label = c("lh_region1", "lh_region2")
)
vertices <- data.frame(
  label = c("lh_region1", "lh_region2"),
  vertices = I(list(c(1L, 2L, 3L), c(4L, 5L, 6L)))
)
atlas <- ggseg_atlas(
  atlas = "test",
  type = "cortical",
  core = core,
  data = ggseg_data_cortical(vertices = vertices)
)
```

ggseg_data_cortical *Create cortical atlas data*

Description

Creates a data object for cortical brain atlases. Cortical atlases use vertex indices that map regions to vertices on a shared brain surface mesh (e.g., `fsaverage5`).

Usage

```
ggseg_data_cortical(sf = NULL, vertices = NULL)
```

```
brain_data_cortical(sf = NULL, vertices = NULL)
```

Arguments

sf sf data.frame with columns label, view, geometry for 2D rendering. Optional but required for ggseg plotting.

vertices data.frame with columns label and vertices (list-column of integer vectors). Each vector contains vertex indices for that region.

Value

An object of class c("ggseg_data_cortical", "ggseg_atlas_data")

Examples

```
data <- ggseg_data_cortical(
  vertices = data.frame(
    label = c("bankssts", "caudalanteriorcingulate"),
    vertices = I(list(c(1L, 2L, 3L), c(4L, 5L, 6L)))
  )
)
```

```
ggseg_data_subcortical
```

Create subcortical atlas data

Description

Creates a data object for subcortical brain atlases. Subcortical atlases use individual 3D meshes for each structure (e.g., hippocampus, amygdala).

Usage

```
ggseg_data_subcortical(sf = NULL, meshes = NULL)
```

```
brain_data_subcortical(sf = NULL, meshes = NULL)
```

Arguments

sf sf data.frame with columns label, view, geometry for 2D rendering. Optional.

meshes data.frame with columns label and mesh (list-column). Each mesh is a list with:

- **vertices**: data.frame with x, y, z columns
- **faces**: data.frame with i, j, k columns (1-based triangle indices)

Value

An object of class `c("ggseg_data_subcortical", "ggseg_atlas_data")`

Examples

```
data <- ggseg_data_subcortical(
  meshes = data.frame(
    label = "hippocampus_left",
    mesh = I(list(list(
      vertices = data.frame(x = 1:10, y = 1:10, z = 1:10),
      faces = data.frame(i = 1:3, j = 2:4, k = 3:5)
    )))
  )
)
```

ggseg_data_tract

Create tract atlas data

Description

Creates a data object for white matter tract atlases. Stores centerlines compactly; tube meshes are generated at render time for efficiency.

Usage

```
ggseg_data_tract(sf = NULL, centerlines = NULL, meshes = NULL, ...)
```

```
brain_data_tract(sf = NULL, centerlines = NULL, meshes = NULL, ...)
```

Arguments

<code>sf</code>	sf data.frame with columns label, view, geometry for 2D rendering. Optional.
<code>centerlines</code>	data.frame with columns: <ul style="list-style-type: none"> • label: tract identifier (character) • points: list-column of n x 3 matrices (centerline coordinates) • tangents: list-column of n x 3 matrices (for orientation coloring)
<code>meshes</code>	Deprecated. Use centerlines instead. If provided, will be converted to centerlines format.
<code>...</code>	Absorbs legacy fields (e.g. tube_radius, tube_segments) from old cached atlas objects.

Value

An object of class `c("ggseg_data_tract", "ggseg_atlas_data")`

Examples

```
centerlines_df <- data.frame(
  label = "cst_left",
  points = I(list(matrix(rnorm(150), ncol = 3))),
  tangents = I(list(matrix(rnorm(150), ncol = 3)))
)
data <- ggseg_data_tract(centerlines = centerlines_df)
```

is_ggseg3d_atlas	<i>Check if object is a legacy ggseg3d atlas</i>
------------------	--

Description

Check if object is a legacy ggseg3d atlas

Usage

```
is_ggseg3d_atlas(x)
```

Arguments

x an object

Value

logical

Examples

```
is_ggseg3d_atlas(dk())
```

is_ggseg_atlas	<i>Check ggseg atlas class</i>
----------------	--------------------------------

Description

These functions check both the class tag and structural validity by passing the object through [ggseg_atlas\(\)](#). An object that carries the right class but fails validation returns FALSE.

Usage

```
is_ggseg_atlas(x)
is_cortical_atlas(x)
is_subcortical_atlas(x)
is_tract_atlas(x)
is_brain_atlas(x)
```

Arguments

x an object

Value

logical

Examples

```
is_ggseg_atlas(dk())
is_cortical_atlas(dk())
is_subcortical_atlas(aseg())
is_tract_atlas(tracula())
```

read_atlas_files *Read in atlas data from all subjects*

Description

Recursively reads in all stats files for an atlas (given a unique character string), for all subjects in the subjects directory. Will add hemisphere and subject id to the data.

Usage

```
read_atlas_files(subjects_dir, atlas)
```

Arguments

subjects_dir FreeSurfer subject directory
atlas unique character combination identifying the atlas

Value

tibble with stats information for subjects from FreeSurfer

Examples

```
## Not run:
subj_dir <- "/path/to/freesurfer/7.2.0/subjects/"
read_atlas_files(subj_dir, "aseg.stats")

read_atlas_files(subj_dir, "lh.aparc.stats")

## End(Not run)
```

read_freesurfer_stats *Read in raw FreeSurfer stats file*

Description

FreeSurfer atlas stats files have a format that can be difficult to easily read in to R. This function takes a raw stats-file from the subjects directory and reads it in as a data.frame.

Usage

```
read_freesurfer_stats(path, rename = TRUE)
```

Arguments

path	path to stats file
rename	logical. rename headers for ggseg compatibility

Value

tibble with stats information for subjects from FreeSurfer

Examples

```
## Not run:
subj_dir <- "/path/to/freesurfer/7.2.0/subjects/"
aseg_stats <- file.path(subj_dir, "bert/stats/aseg.stats")
read_freesurfer_stats(aseg_stats)

## End(Not run)
```

read_freesurfer_table *Read in stats table from FreeSurfer*

Description

FreeSurfer has functions to create tables from raw stats files. If you have data already merged using the `aparcstats2table` or `asegstats2table` from FreeSurfer, this function will read in the data and prepare it for `ggseg`.

Usage

```
read_freesurfer_table(path, measure = NULL, ...)
```

Arguments

path	path to the table file
measure	which measure is the table of
...	additional arguments to <code>read.table</code>

Value

tibble with stats information for subjects from FreeSurfer

Examples

```
## Not run:  
file_path <- "all_subj_aseg.txt"  
read_freesurfer_table(file_path)  
  
## End(Not run)
```

tracula *TRACULA White Matter Tract Atlas*

Description

Returns the TRACULA (TRActs Constrained by UnderLying Anatomy) white matter bundle atlas in MNI space.

Usage

```
tracula()
```

Details

This atlas contains major white matter tracts reconstructed from diffusion MRI using FreeSurfer's TRACULA training data. It works with both `ggseg` (2D slice projections) and `ggseg3d` (3D tube mesh visualizations).

Value

A `ggseg_atlas` object with components:

atlas Character. Atlas name ("tracula")

type Character. Atlas type ("tract")

palette Named character vector of colours for each tract

data A `ggseg_data_tract` object containing:

centerlines List of centerline matrices per tract

sf Simple features data frame for 2D rendering

References

Yendiki A, Panneck P, Srinivasan P, et al. (2011). Automated probabilistic reconstruction of white-matter pathways in health and disease using an atlas of the underlying anatomy. *Frontiers in Neuroinformatics*, 5:23. doi:10.3389/fninf.2011.00023

See Also

`dk()` for cortical parcellation, `aseg()` for subcortical structures, `ggseg_atlas()` for the atlas class constructor

Other `ggseg_atlas`s: `aseg()`, `dk()`

Examples

```
tracula()
```

```
atlas_regions(tracula())
```

Index

- * **ggseg_atlases**
 - aseg, 2
 - dk, 12
 - tracula, 21
- as_brain_atlas (as_ggseg_atlas), 4
- as_ggseg_atlas, 4
- aseg, 2, 13, 22
- aseg(), 13, 22
- atlas_core_add (atlas_manipulation), 5
- atlas_labels, 4
- atlas_manipulation, 5
- atlas_meshes, 7
- atlas_palette, 8
- atlas_region_contextual
 - (atlas_manipulation), 5
- atlas_region_keep (atlas_manipulation), 5
- atlas_region_remove
 - (atlas_manipulation), 5
- atlas_region_rename
 - (atlas_manipulation), 5
- atlas_regions, 8
- atlas_sf, 9
- atlas_type, 9
- atlas_vertices, 10
- atlas_view_gather (atlas_manipulation), 5
- atlas_view_keep (atlas_manipulation), 5
- atlas_view_remove (atlas_manipulation), 5
- atlas_view_remove_region
 - (atlas_manipulation), 5
- atlas_view_remove_small
 - (atlas_manipulation), 5
- atlas_view_reorder
 - (atlas_manipulation), 5
- atlas_views, 10
- brain_atlas (ggseg_atlas), 14
- brain_data_cortical
 - (ggseg_data_cortical), 15
- brain_data_subcortical
 - (ggseg_data_subcortical), 16
- brain_data_tract (ggseg_data_tract), 17
- brain_labels (atlas_labels), 4
- brain_regions (atlas_regions), 8
- brain_views (atlas_views), 10
- convert_legacy_brain_atlas, 11
- dk, 3, 12, 22
- dk(), 3, 22
- get_brain_mesh, 14
- ggseg_atlas, 14
- ggseg_atlas(), 3, 13, 18, 22
- ggseg_data_cortical, 15
- ggseg_data_cortical(), 15
- ggseg_data_subcortical, 16
- ggseg_data_subcortical(), 15
- ggseg_data_tract, 17
- ggseg_data_tract(), 15
- is_brain_atlas (is_ggseg_atlas), 18
- is_cortical_atlas (is_ggseg_atlas), 18
- is_ggseg3d_atlas, 18
- is_ggseg_atlas, 18
- is_subcortical_atlas (is_ggseg_atlas), 18
- is_tract_atlas (is_ggseg_atlas), 18
- read_atlas_files, 19
- read_freesurfer_stats, 20
- read_freesurfer_table, 21
- tracula, 3, 13, 21
- unify_legacy_atlases
 - (convert_legacy_brain_atlas), 11