3d Brain Atlas Reconstructor on-line service

1. Available backend services
    1. getAvailableDatasets
    2. getCafInfo
    3. getReconstruction
    4. getPreviewReconstruction
    5. getThumbnail
    6. getCafSlide
2. Availiable frontend services
    1. getPreview
    2. getCafInfoPage

Available backend services

getAvailableDatasets

Returns an AJAX data describing CAF datasets (atlases) available to the user in the service.

Example

- http://service.3dbar.org/getAvailableDatasets

getCafInfo

Returns the index file of selected CAF dataset. Index file contains the list of structures available for reconstruction, their hierarchy and the list of slides within the given dataset.

Examples

- http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51
- http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51;listSlides=False;listStructures=False

getReconstruction

Returns a model of a given structure from selected dataset as a zip file containing the reconstruction and a short description.

Examples

- http://service.3dbar.org/getReconstruction?cafDatasetName=whs_0.51;structureName=thalamus
- http://service.3dbar.org/getReconstruction?cafDatasetName=whs_0.51;structureName=thalamus;qualityPreset=high;

getPreviewReconstruction

Returns a lightweight model of a given structure from selected dataset as an x3d mesh.

Examples

- http://service.3dbar.org/getPreviewReconstruction?cafDatasetName=whs_0.51;structureName=thalamus

getThumbnail

Returns a thumbnail of the reconstruction of a given structure available via `getReconstruction` in png format.

Examples

- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=corpus-callosum
- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=thalamus
- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=CNS
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_DB08;structureName=FL
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_DB08;structureName=LV
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_PHT00;structureName=Brain

getCafSlide

Returns an SVG image with CAF slide filtered using provided settings.

Examples

- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460
- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460;showMask=True;showLabels=Fa
- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460;showLabels=False
- http://service.3dbar.org/getCafSlide?cafDatasetName=sba_DB08;slideNumber=84;structureList=Cx
- http://service.3dbar.org/getCafSlide?cafDatasetName=sba_DB08;slideNumber=84;structureList=Cx,Th

Availiable frontend services

getPreview

Displays a window allowing to manipulate (rotate, zoom, etc.) lightweight version of the reconstuciton. Note that the web browser has to support WebGL in order to use this feature.

Examples

- http://service.3dbar.org/getPreview?cafDatasetName=whs_0.51&structureName=CNS
- http://service.3dbar.org/getPreview?cafDatasetName=whs_0.5&structureName=Hc
- http://service.3dbar.org/getPreview?cafDatasetName=sba_DB08&structureName=FBr

getCafInfoPage

Displays a window containing basic information about CAF dataset.

Examples

- http://service.3dbar.org/getCafInfoPage?cafDatasetName=sba_DB08