3d Brain Atlas Reconstructor on-line service

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Backend services

getAvailableDatasets

Return AJAX data describing CAF datasets (atlases) available to the user in the service. See details.

Example

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

getCaf

Return zip archive containing requested CAF dataset. See details

Example

- http://www.3dbar.org:8080/getCaf?cafDatasetName=whs_0.6.1

getCafInfo

Return 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. See details.

Examples

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

getCafSlide

Return an SVG image with CAF slide filtered using provided settings. See details.

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

getVolume

Return zipped labeled NifTi? volume containing neuroanatomical information from the requested CAF dataset. See details

Example

- http://www.3dbar.org:8080/getVolume?cafDatasetName=whs_0.6.1

getReconstruction

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

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

Return a lightweight model of a given structure from selected dataset as an x3d mesh. See details.

Examples

- http://service.3dbar.org/getPreviewReconstruction?cafDatasetName=whs_0.51;structureName=thalamus
- http://service.3dbar.org/getPreviewReconstruction?cafDatasetName=sba_DB08;structureName=Br

getThumbnail

Return a thumbnail of the reconstruction of a given structure available via `getReconstruction` in png format. See details.

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

queryReconstruction

Return AJAX data describing reconstructions in the service matching the criteria. See details.

Examples

- http://service.3dbar.org/queryReconstruction?cafDatasetName=sba_DB08;structureList=Br;outputFormats=exportTo
- http://service.3dbar.org/queryReconstruction?cafDatasetName=whs_0.6.1;structureList=Brain;outputFormats=expor
- http://service.3dbar.org/queryReconstruction?cafDatasetName=sba_DB08;structureList=Amg;switches=brainoutline

getReconstructionByKey

Return reconstruction (stored in the service) of a given service identifier. The identifier can be obtained using 'queryReconstruction' service. See details.

Example

- http://service.3dbar.org/getReconstructionByKey?id=26721

getThumbnailByKey

Return a thumbnail of reconstruction (stored in the service) of a given service identifier in png format. See details.

Example

- http://service.3dbar.org/getThumbnailByKey?id=12064

Frontend services

getPreview

Display 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. See details.

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

Display a window containing basic information about CAF dataset. See details.

Examples

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

queryJob

Display a window containing information about a reconstruction job of requested identifier - and about other reconstruction jobs requested for the same CAF dataset. See details.

Examples

- http://service.3dbar.org/queryJob?id=22