

# 3d Brain Atlas Reconstructor on-line service

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## Available services

### 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)
- [http://service.3dbar.org/getCafInfo?cafDatasetName=whs\\_0.51;listSlides=False;listStructures=False](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)
- [http://service.3dbar.org/getReconstruction?cafDatasetName=whs\\_0.51;structureName=thalamus;qualityPreset=high](http://service.3dbar.org/getReconstruction?cafDatasetName=whs_0.51;structureName=thalamus;qualityPreset=high)

### getPreview

Displays a window allowing to manipulate (rotate, zoom, etc.) lightweight version of the reconstruction. 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_0.51&structureName=CNS)
- [http://service.3dbar.org/getPreview?cafDatasetName=whs\\_0.5&structureName=Hc](http://service.3dbar.org/getPreview?cafDatasetName=whs_0.5&structureName=Hc)
- [http://service.3dbar.org/getPreview?cafDatasetName=sba\\_DB08&structureName=FBr](http://service.3dbar.org/getPreview?cafDatasetName=sba_DB08&structureName=FBr)

### 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=corpus-callosum)
- [http://service.3dbar.org/getThumbnail?cafDatasetName=whs\\_0.51;structureName=thalamus](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=whs_0.51;structureName=CNS)
- [http://service.3dbar.org/getThumbnail?cafDatasetName=sba\\_DB08;structureName=FL](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_DB08;structureName=LV)
- [http://service.3dbar.org/getThumbnail?cafDatasetName=sba\\_PHT00;structureName=Brain](http://service.3dbar.org/getThumbnail?cafDatasetName=sba_PHT00;structureName=Brain)

## **getCafSlide**

Returns an SVG image with CAF slide filtered by 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)
- [http://service.3dbar.org/getCafSlide?cafDatasetName=whs\\_0.51;slideNumber=460;showMask=True;showLabels=False](http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460;showMask=True;showLabels=False)
- [http://service.3dbar.org/getCafSlide?cafDatasetName=whs\\_0.51;slideNumber=460;showLabels=False](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)
- [http://service.3dbar.org/getCafSlide?cafDatasetName=sba\\_DB08;slideNumber=84;structureList=Cx.Th](http://service.3dbar.org/getCafSlide?cafDatasetName=sba_DB08;slideNumber=84;structureList=Cx.Th)

## **Available datasets**

The Waxholm Space mouse atlas, 2010 delineation (whs\_0.51)

[http://service.3dbar.org/getCafInfo?cafDatasetName=whs\\_0.51](http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51)

The Waxholm Space mouse atlas, 2009 delineation (whs\_0.5)

[http://service.3dbar.org/getCafInfo?cafDatasetName=whs\\_0.5](http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.5)

NeuroMaps Macaque Atlas from SBA template (sba\_DB08)

[http://service.3dbar.org/getCafInfo?cafDatasetName=sba\\_DB08](http://service.3dbar.org/getCafInfo?cafDatasetName=sba_DB08)

Rhesus Monkey, Paxinos et al. 2000 from SBA template (sba\_PHT00)

[http://service.3dbar.org/getCafInfo?cafDatasetName=sba\\_PHT00](http://service.3dbar.org/getCafInfo?cafDatasetName=sba_PHT00)

SBA template of Waxholm Space mouse atlas (sba\_WHS09)

[http://service.3dbar.org/getCafInfo?cafDatasetName=sba\\_WHS09](http://service.3dbar.org/getCafInfo?cafDatasetName=sba_WHS09)

SBA template of Waxholm Space mouse atlas (sba\_WHS10)

[http://service.3dbar.org/getCafInfo?cafDatasetName=sba\\_WHS10](http://service.3dbar.org/getCafInfo?cafDatasetName=sba_WHS10)