

## **queryReconstruction**

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

syntax

```
queryReconstruction?cafDatasetName=<dataset identifier>
                    ;structureList=<structure name>
                    ;outputFormats=<output format list>
                    [;resolution=<resolution>]
                    [;pipeline=<pipeline name>]
                    [;switches=<switches list>]
```

### **Required arguments**

- cafDatasetName

The service identifier of the selected CAF dataset.

- structureName

Name of structure from hierarchy tree. In practice nearly all names should be fine. Formally name has to point to a root node of a subtree containing at least one node with representation among paths in CAF slides.

- outputFormats

Nonempty coma-separated list of reconstruction file format descriptors. Allowed format descriptors are:

- exportToVRML:: VRML files,
- exportToX3d:: X3D files,
- exportToPOVRay:: POV-Ray files,
- exportToNiftii:: NIfTI files
- exportToVTKPolydata:: vtk polydata files,
- exportToNumpy:: NumPy? array files,
- exportToVolume:: vtk structured grid files,
- exportScreenshot:: PNG images,
- exportThumbnail:: PNG thumbnails.

### **Optional arguments**

- resolution

Coronal and anterior-posterior voxel size separated with a coma.

- pipeline

Service identifier of the pipeline the reconstructions has been generated with.

- switches Nonempty coma-separated list of switches:
  - ◆ brainoutline

match only structures containing the outline of hierarchy tree root structure; forces 'composite' switch,

- composite

only scene format descriptors ('exportToVRML', 'exportToX3d', 'exportToPOVRay', 'exportScreenshot', 'exportThumbnail') in the 'outputFormats' list.

## AJAX data type

```
[{
  String: String,
  String: [Number, Number, String],
  String: String,
  String: Boolean,
  String: String,
  String: Number,
  String: Number | null,
  String: String,
  String: String
},
...]
```

## AJAX data description

The data is provided in format:

```
[{
  'groups': <groups>,
  'quality': [<xyres>, <zres>, <pipeline name>],
  'format': <format>,
  'compressed': <compressed>,
  'status': <status>,
  'cacheID': <id>,
  'size': <size>,
  'groupsID': <groups id>,
  'CAFSlideUnits': <unit>
},
...]
```

where:

<groups>

is a string composed of reconstructed groups names separated with '\_' character; if an outline is present in the reconstruction, its name precedes others and is separated with double '\_' character,

## Examples

- [http://service.3dbar.org/queryReconstruction?cafDatasetName=sba\\_DB08;structureList=Br;outputFormats=exportToVRML](http://service.3dbar.org/queryReconstruction?cafDatasetName=sba_DB08;structureList=Br;outputFormats=exportToVRML)
- [http://service.3dbar.org/queryReconstruction?cafDatasetName=whs\\_0.6.1;structureList=Brain;outputFormats=exportToX3d](http://service.3dbar.org/queryReconstruction?cafDatasetName=whs_0.6.1;structureList=Brain;outputFormats=exportToX3d)
- [http://service.3dbar.org/queryReconstruction?cafDatasetName=sba\\_DB08;structureList=Amg;switches=brainoutline](http://service.3dbar.org/queryReconstruction?cafDatasetName=sba_DB08;structureList=Amg;switches=brainoutline)