3d Brain Atlas Reconstructor on-line service

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. Allowed switches are:
  - ◊ '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') are allowed 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>],
   'format': <format>,
   'compressed': <compressed>,
   'status': <status>,
   'cacheID': <id>,
   'size': <size>,
   'groupsID': <groups id>,
   'CAFSlideUnits': <unit>
 },
 ...]
```

where:

<groups>
: is a string describing structures included in the reconstruction,

<xyres>
: is the coronal voxel size used in the reconstruction process,

<zres>
: is the anterior-posterior voxel size used in the reconstruction process,

<pipeline>
: is the service identifier of the pipeline used in the reconstruction process,

<format>
: is a string describing the format of reconstruction file,

<compressed>
: indicates if the reconstruction file has been compressed as a zip archive,

<status>
is a string describing the status of the reconstruction; possible values are:
- ◊ 'None',
- ◊ 'Scheduled',
- ◊ 'Pending',
- ◊ 'In progress',
- ◊ 'Completed',
- ◊ 'Finished',
- ◊ 'Failed',
- ◊ 'Removed',

<id>
is the service identifier of the reconstruction,

<size>
is the reconstruction file size (in bytes),

<groups id>
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,

<unit>
is the voxel size unit.

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