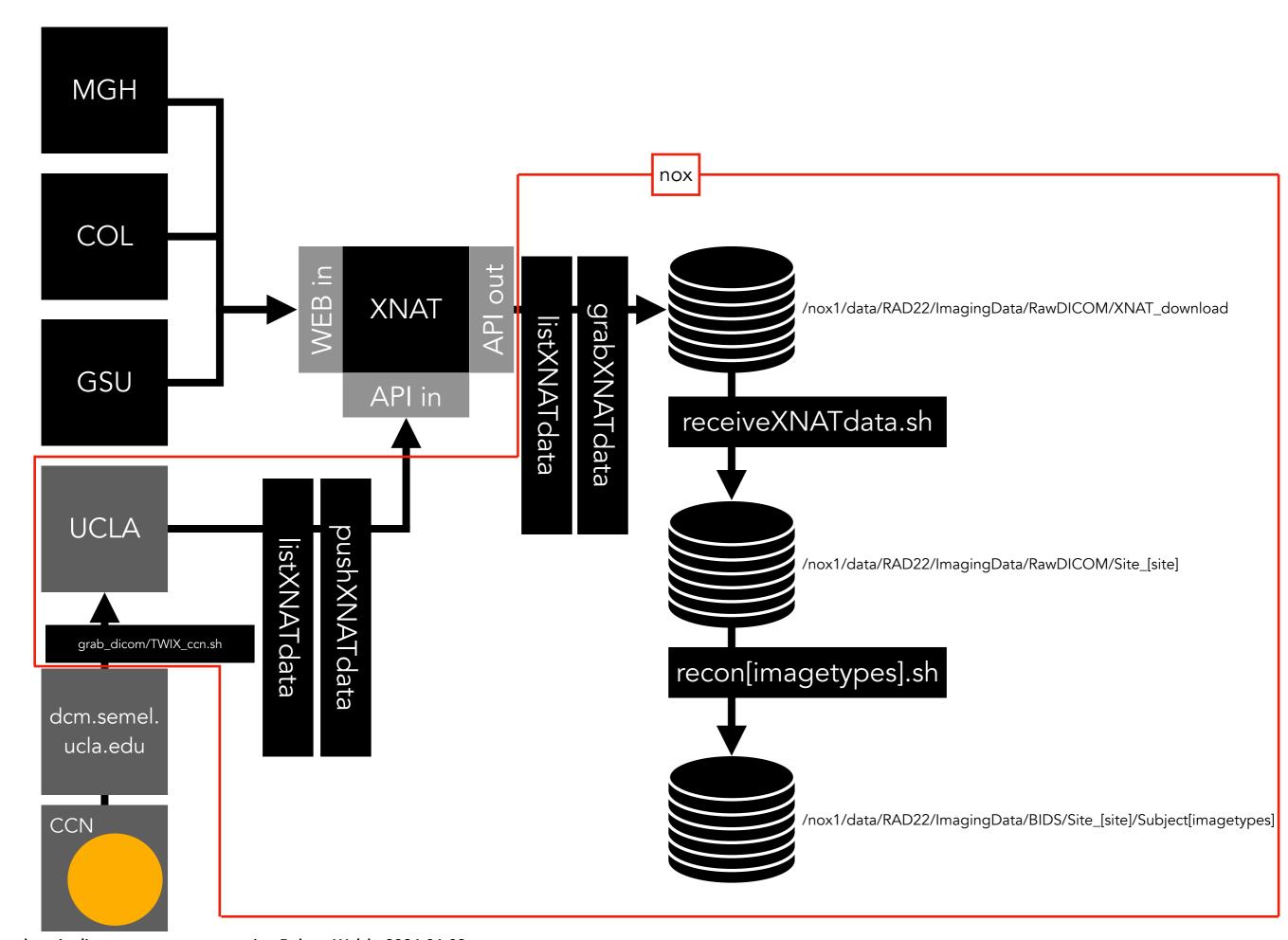
## RADCO

# Image Processing Pipelines - XNAT to reconstruction of NII



**API Specifications** 

listXNATdata

list current data sets available on the XNAT, this is also use to query if data set is on XNAT

grabXNATdata

grab data from XNAT for specific session and site

pushXNATdata

push a specific dataset to the XNAT

receiveXNATdata.sh

check /nox1 for new data from XNAT and place in proper site directory

recon[iamgetypes].sh

recon data for a given data type

grab\_dicom\_ccn.sh

process to grab dicom data from the UCLA dicom server

grab\_TWIX\_ccn.sh

process to grab TWIX data from the UCLA dicom server



```
listXNATdata -x [database] [-b] [-d] [-h]
```

#### Input

- -x [database] name of XNAT database to query
- -b list only those sessions with binary data files
- -d debug flag
- -h help option, shows this help

#### Output

returns list (one line per session) of MR session that are available on the XNAT database specified, to STDOUT

```
format is [session] [session]
```

#### Example

listXNATdata -d RADCO

RAD22\_COL\_AE100-090Aka\_01 RAD22\_COL\_AE100-133A\_01

- 0 no error
- 1 XNAT database does not exist
- 9 XNAT connection error

- \*\*[database] could be RADCO or sync\_test
- \*should read configuration from \${XNAT\_CONFIG} which will be a .json file



```
grabXNATdata -x [database] -s [session] [-b] [-d] [-h]
```

#### Input

- -x [database] name of XNAT database to query
- -s [session] session to grab
- -b grab binary data only
- -d debug flag
- -h help option, shows this help

#### Output

returns all data related for that session into the present working directory

#### Example

```
grabXNATdata -d RADCO -s RAD22_GSU_BU101_140AKd_01
```

- 0 no error
- 1 XNAT database does not exist
- 2 XNAT session does not exist
- 9 XNAT connection error

<sup>\*\*[</sup>database] could be RADCO or sync\_test

<sup>\*</sup>should read configuration from \${XNAT\_CONFIG} which will be a .json file



```
pushXNATdata -x [database] -s [session] [-b [file]] [-d] [-h]
```

#### Input

- -x [database] name of XNAT database to query
- -s [session] session to grab
- -b [file] push the named binary file (TWIX or PDF)
- -d debug flag
- -h help option, shows this help

#### Output

push a session from the present working directory into the XNAT

#### Example

```
pushXNATdata -d RADCO -s RAD22_UCLA_BU101_180AKd_01
```

- 0 no error
- 1 XNAT database does not exist
- 2 local session does not exist
- 3 XNAT session already exists
- 9 XNAT connection error

<sup>\*\*[</sup>database] could be RADCO or sync\_test

<sup>\*</sup>should read configuration from \${XNAT\_CONFIG} which will be a .json file

```
grab_dicom_ccn.sh
grab_TWIX_ccn.sh
```

Input

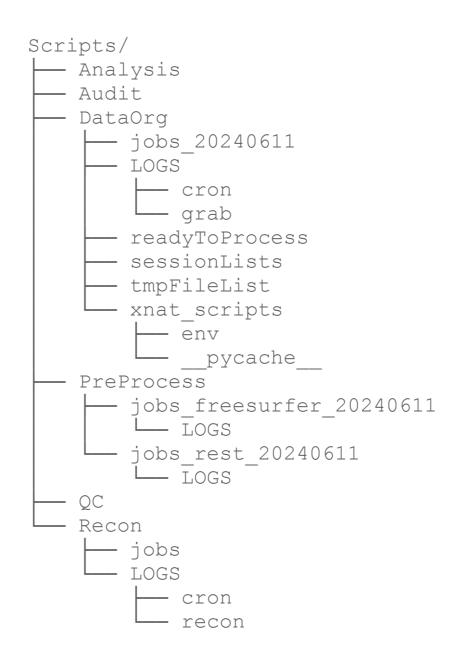
none

Output

pulls data automatically, started by cron



cron jobs for reconstruction of images



#### \${RAD22\_CONFIG}

The environmental variable RAD22\_CONFIG will point point a .json file that contains specific information about the XNAT server and the RADCO experiment This includes the following information:

do

```
export RAD22_CONFIG=/nox2/data/RAD22/rad22_config.json
```