

# Directory Organization For MINIPIG Collaboration

**Separate Raw Image and Experiment Directory**  
**Each directory has 3-tier directory hierarchy.**

- Project\_name (ex: MINIPIG\_PRJ\_\_100)
  - Subject\_id (ex: 123456789)
    - session\_id (ex: 12345678\_20090720\_30,  
*This session\_id has to be unique so that it is identifiable by itself without any subject\_id or project\_id*)

*`\${PROJECT}` is a placeholder for project - These need globally unique. There will likely be only one project right now (i.e. MINIPIG\_HD\_100)*

*`\${SUBJECT}` is a placeholder for the subject - These need to be globally unique for all subjects. You MAY NOT re-use a subjectID in multiple projects.*

*`\${SESSION}` is a placeholder for the session - These need to be globally unique. The SESSION must uniquely identify this session and this ID may not be re-used in any other project or for any other session.*

*`\${SCANTYPE}` is a placeholder for universally applied scan type names. This is a list of short names to easily identify scan types. It does not necessarily match any field in the dicom files. (i.e. T1, T2, PD, FLAIR, FLASH, T1HIGHRES, T1LOWRES)*

*NOTES: Select subject identifiers so that they begin with a letter, or a number other than 0. Project, Subject, and Session numbers shall ALWAYS be considered strings. "123456789" is really a string NOT a number.*

*NOTES: Never start a PROJECTID, SUBJECTID, SESSIONID with leading zeros. Microsoft excel and other tools insist on stripping those.*

*NOTES: If you want to encode dates into the name, ensure that YYYYMMDD format is used 20141009 is "October 9th of 2014"*

*NOTES: File system paths can NOT have spaces in them.*

*NOTES: Rigorously following these recommendations will facilitate data procesing and will ease script writing in the future.*

### Example of Raw Image Data Directory :

## THE PROJECT LEVEL

\$ ls Raw\_Directory

MINIPIG\_PRJ\_\_100/ MINIPIG\_PRJ\_\_200/ MINIPIG\_PRJ\_\_300/ MINIPIG\_PRJ\_\_400/

## THE SUBJECT LEVEL

\$ ls MINIPIG\_PRJ\_\_100/ # MINIPIG\_PRJ\_\_100 is a project name

123456789/ 111111111/ 222222222/ 333333333/

## THE SESSION LEVEL

\$ ls MINIPIG\_PRJ\_\_100/123456789/ # 123456789 is a subject\_id

123456789\_20090720\_30/ 123456789\_20100727\_30/ 123456789\_20110722\_30/

## ANONRAW is a directory of anonymized unprocessed converted data.

## Filenames are \${SUBJECT}\_\${SESSION}\_\${SCANTYPE}.\${EXTENSION}

\$ ls /Shared/johnsonhj/TrackOn/MINIPIG\_PRJ\_\_100/123456789/123456789\_20090720\_30/ANONRAW/ # 123456789\_20090720\_30 is a session\_id/Unique

123456789_123456789_20090720_30_DWI-36_6.nrrd	123456789_123456789_20090720_30_T1-30_3.xml
123456789_123456789_20090720_30_DWI-36_7.nrrd	123456789_123456789_20090720_30_T2-30_5.mgz
123456789_123456789_20090720_30_T1-30_2.mgz	123456789_123456789_20090720_30_T2-30_5.nii.gz
123456789_123456789_20090720_30_T1-30_2.nii.gz	123456789_123456789_20090720_30_T2-30_5.xml
123456789_123456789_20090720_30_T1-30_2.xml	123456789_123456789_20090720_30_T2-30_9.mgz
123456789_123456789_20090720_30_T1-30_3.mgz	123456789_123456789_20090720_30_T2-30_9.nii.gz
123456789_123456789_20090720_30_T1-30_3.nii.gz	123456789_123456789_20090720_30_T2-30_9.xml

### **Example of Derived (Experiment/Processed) Data Directory :**

```
$ ls Experiment_2014_some_date
MINIPIG_PRJ__100/ MINIPIG_PRJ__200/ MINIPIG_PRJ__300/ MINIPIG_PRJ__400/

$ ls Experiment_2014_some_date/MINIPIG_PRJ__100/ # MINIPIG_PRJ__200 is a project name
123456789/ 111111111/ 222222222/ 333333333/

$ ls Experiment_2014_some_date/MINIPIG_PRJ__100/123456789/ # 123456789 is a subject_id
123456789_20090720_30/ 123456789_20100727_30/ 123456789_20110722_30/

$ ls Experiment_2014_some_date/MINIPIG_PRJ__100/123456789/123456789_20090720_30/
ACPCAlign/
$ ls Experiment_2014_some_date/MINIPIG_PRJ__100/123456789/123456789_20090720_30/ACPCAlign/ # ACPCAlign: Result of ACPC
aligned data in this case.
BCD_ACPC_Landmarks.fcsv          BCD_Original2ACPC_transform.h5
BCD_Branded2DQCimage.png        Cropped_BCD_ACPC_Aligned.nii.gz
BCD_Original.fcsv               landmarkInitializer_atlas_to_subject_transform.h5
```