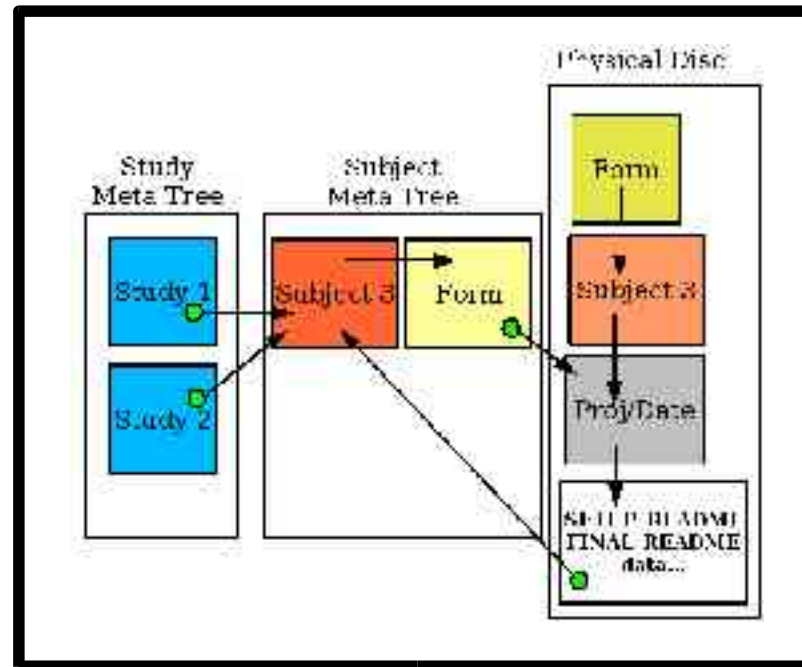


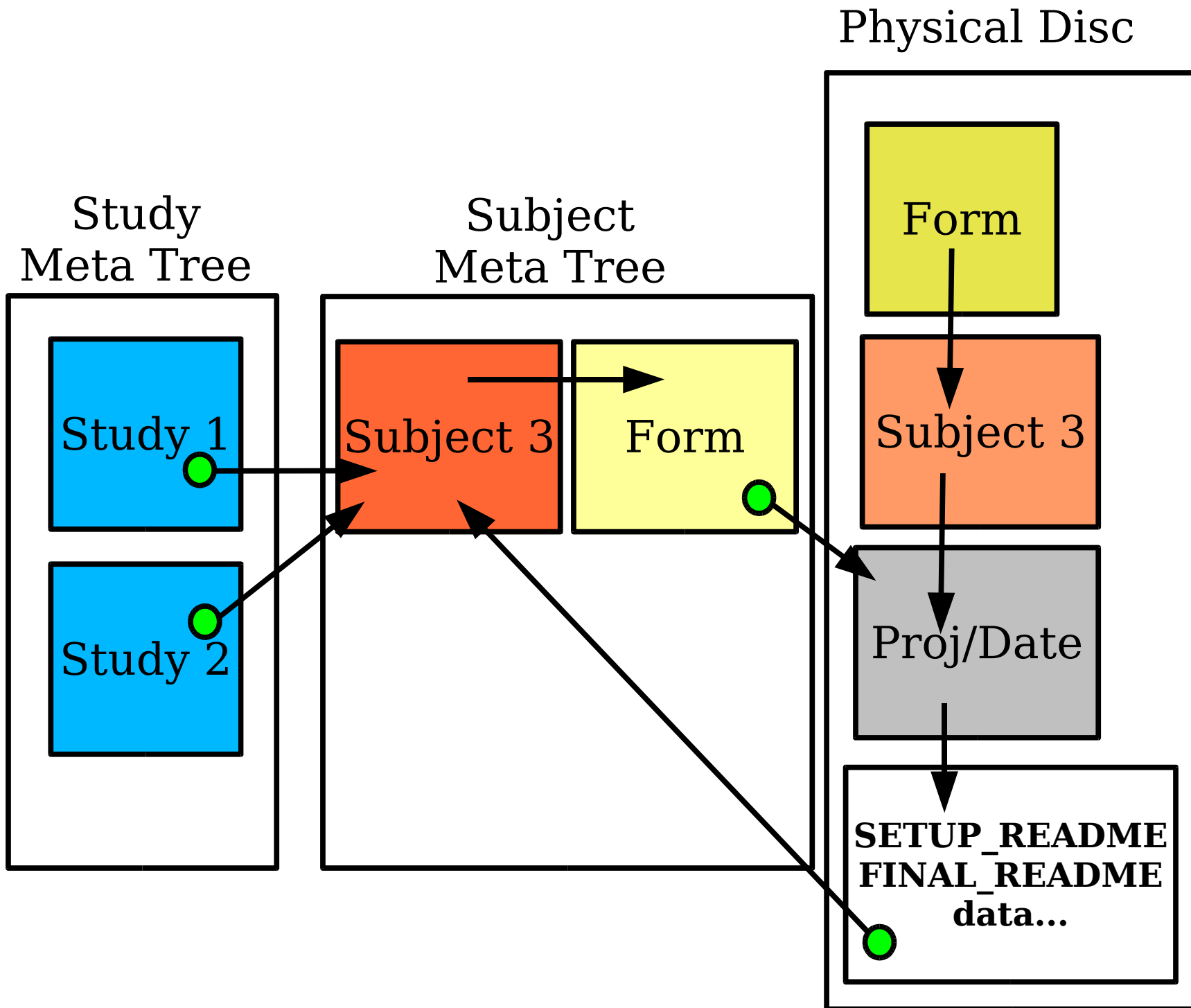
SEDER

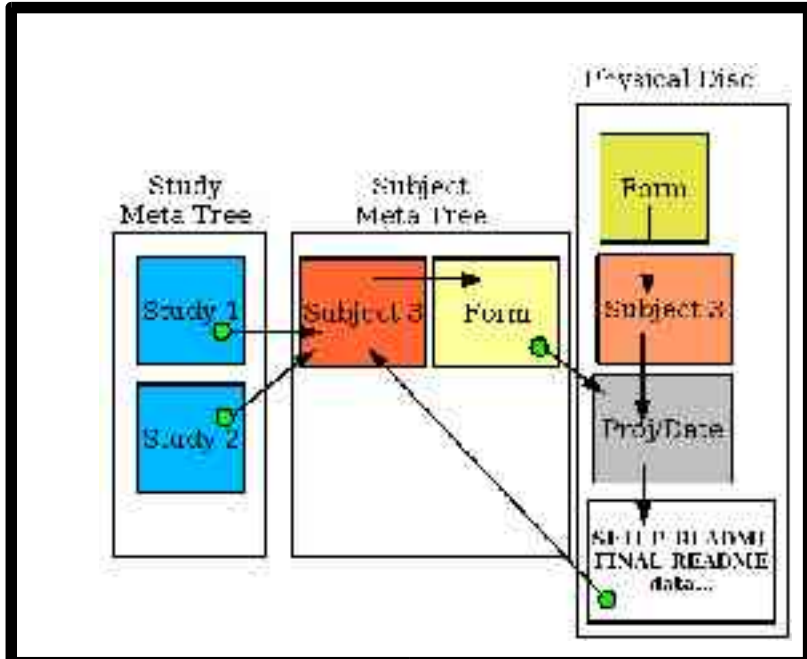


Daniel Goldenholz

What is SEDER?

- “SEDER” = order, organization
- A system for allowing multimodal integration without huge headaches

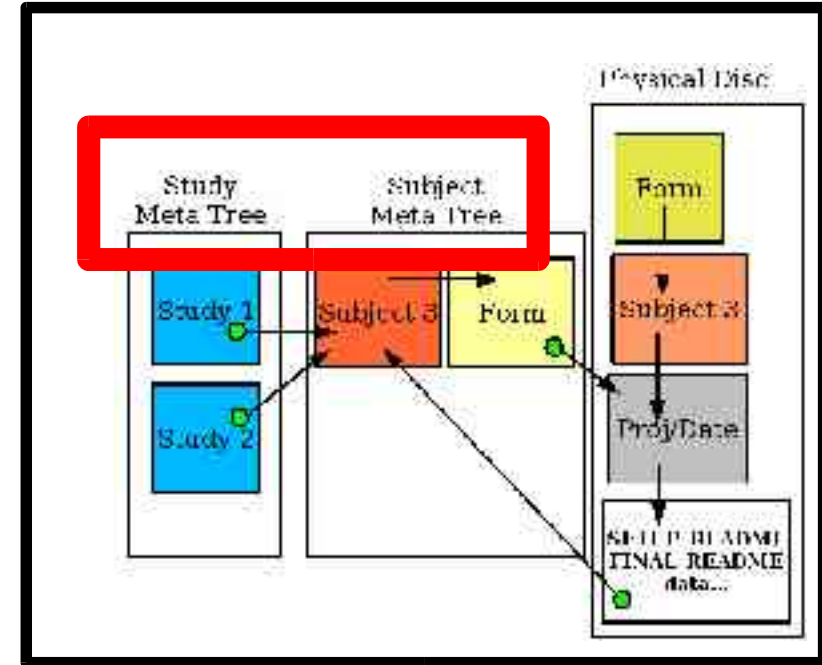




Here are the top level things:

Top Level

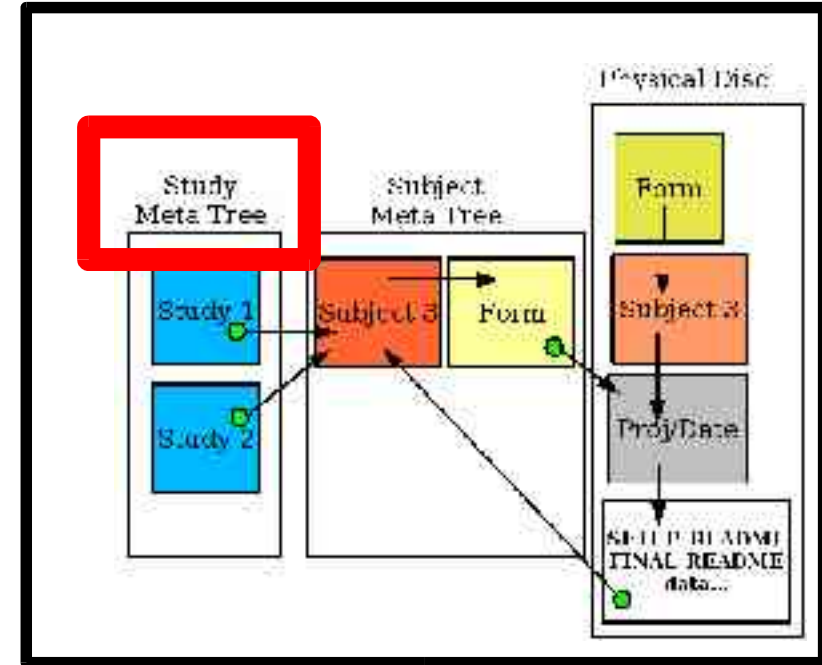
study_meta
subject_meta
...



Here are the top level things:

Top Level

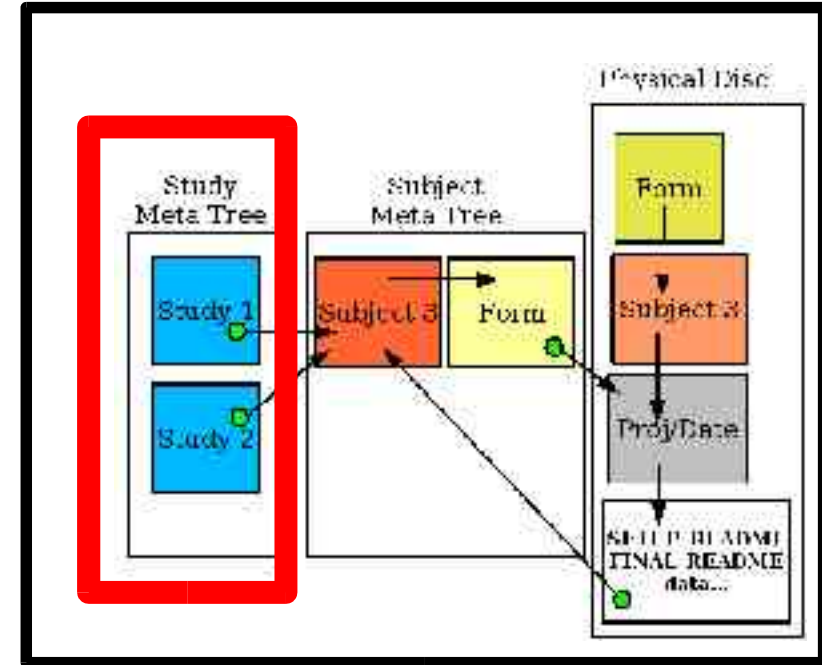
study_meta
subject_meta
...



STUDY META TREE

- A single list of ALL studies
- Each study has a folder
- Within each folder
 - LINKS to the subjects that are included
●●●●

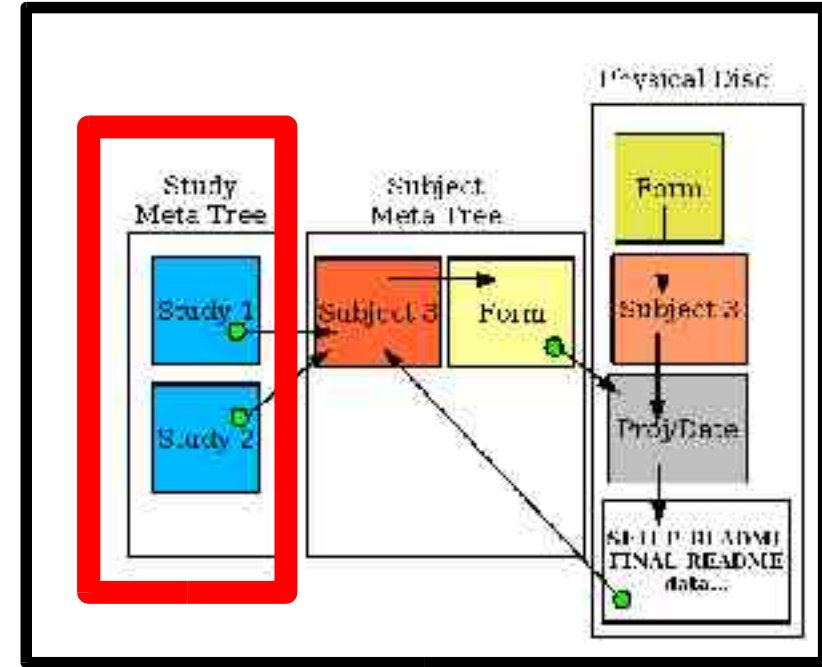
Here is an
example of a
**STUDY META
TREE...**



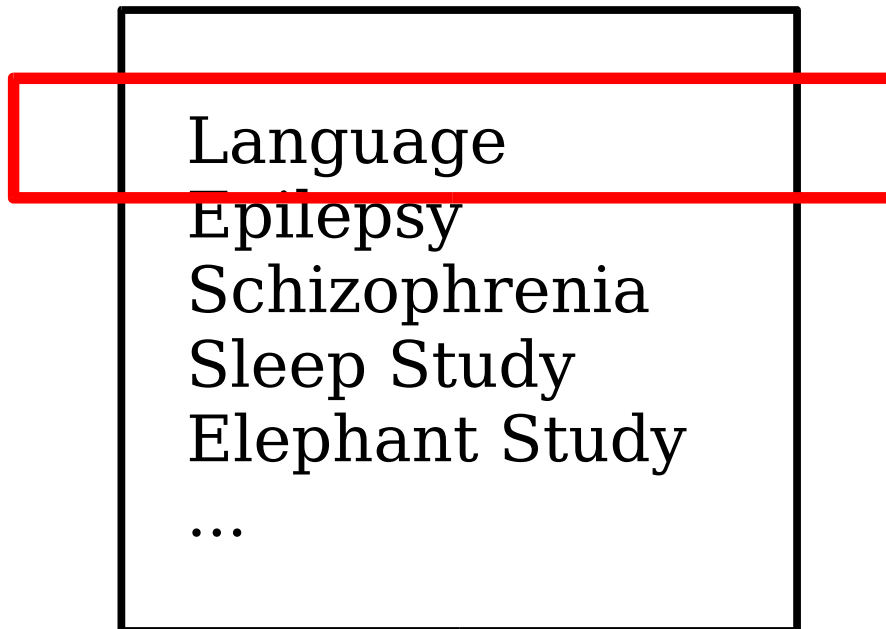
study_meta

Language
Epilepsy
Schizophrenia
Sleep Study
Elephant Study
...

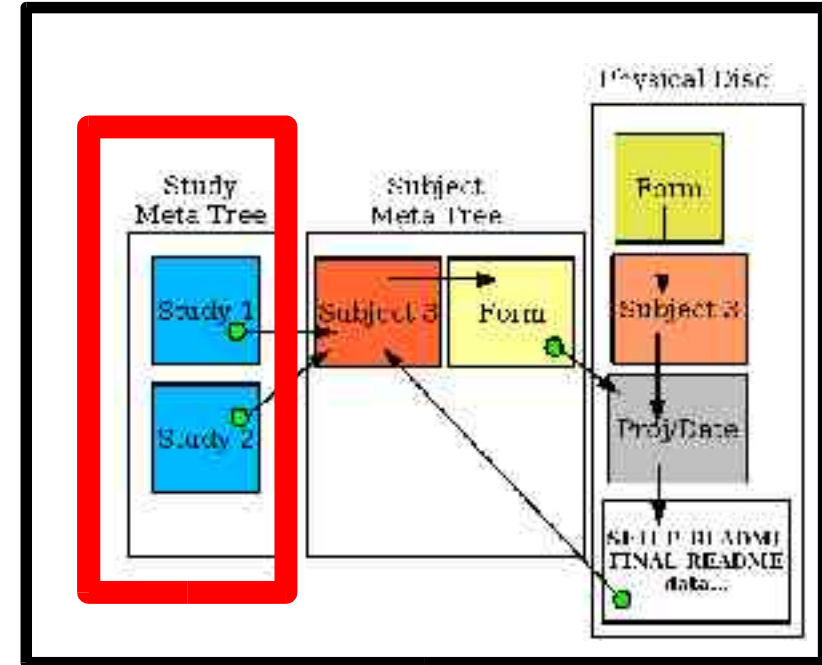
Here is an
example of a
**STUDY META
TREE...**



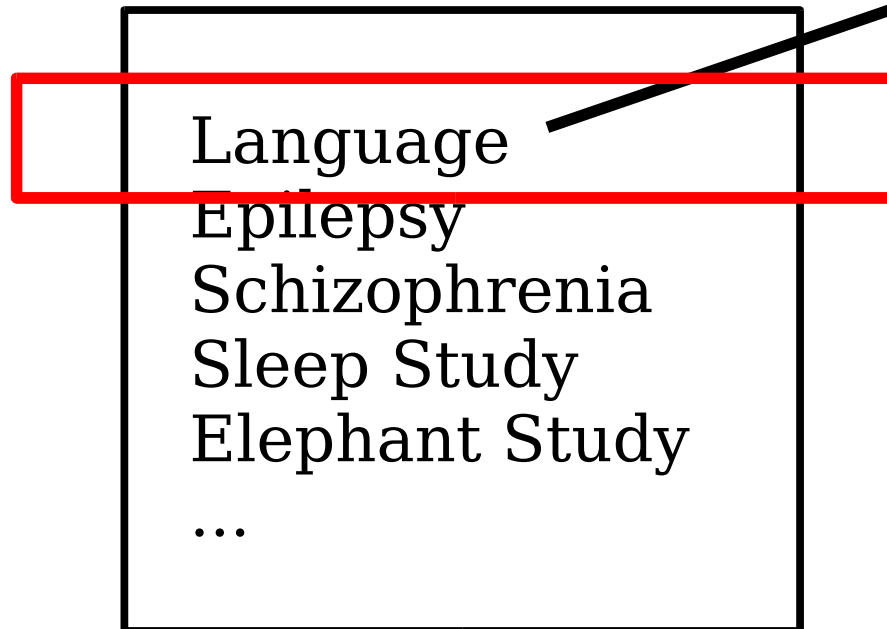
study_meta



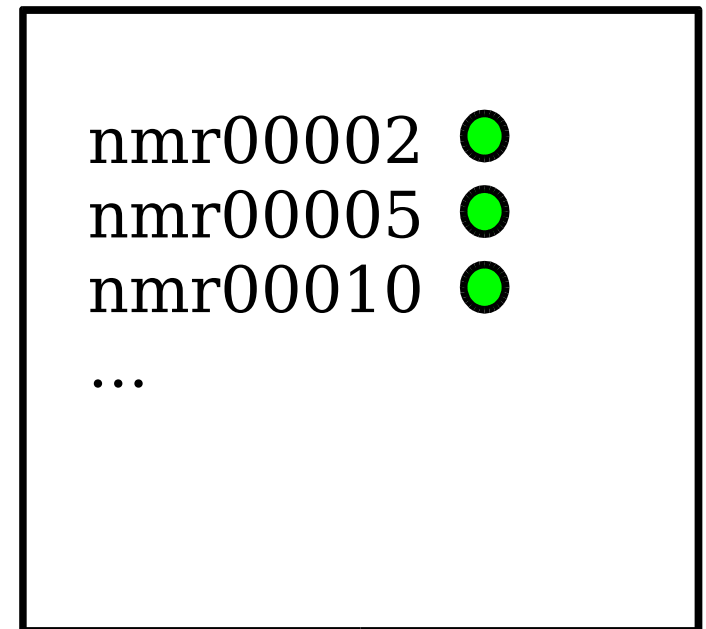
Here is an example of a Language study...



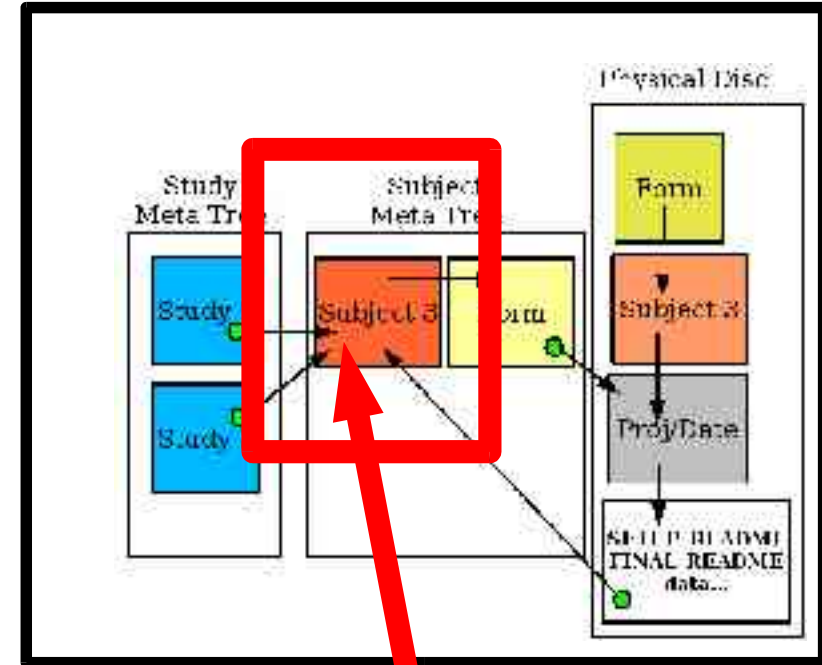
study_meta



Language



Symbolic links point to subject meta tree folders.



study_meta

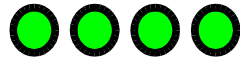
Language
Epilepsy
Schizophrenia
Sleep Study
Elephant Study
...

Language

nmr00002 ●
nmr00005 ●
nmr00010 ●
...

SUBJECT META TREE

- A single list of all subjects
- Each subject has a folder
 - Inside: each data form has a folder
 - Inside: links to actual data

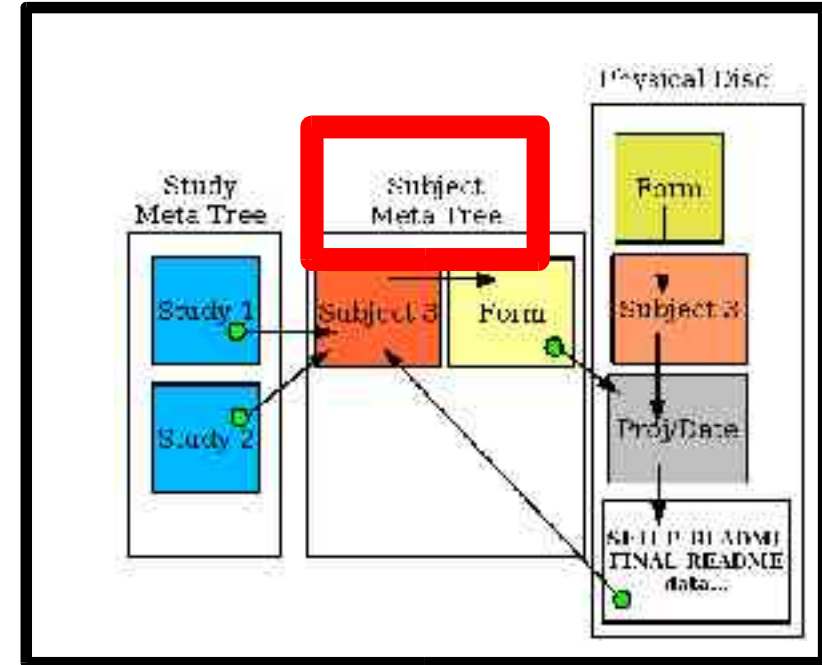


Here are the top level things:

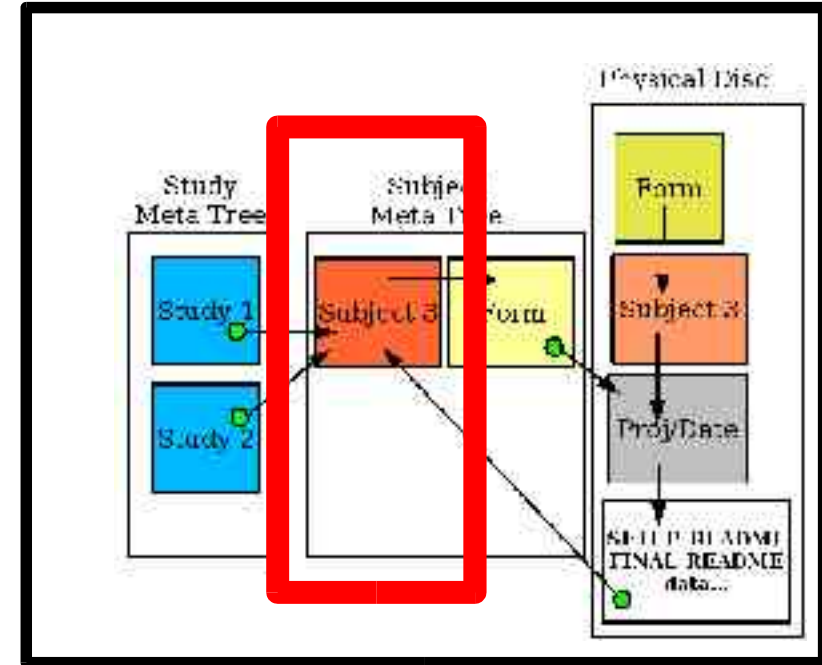
Top Level

study_meta
subject_meta

...



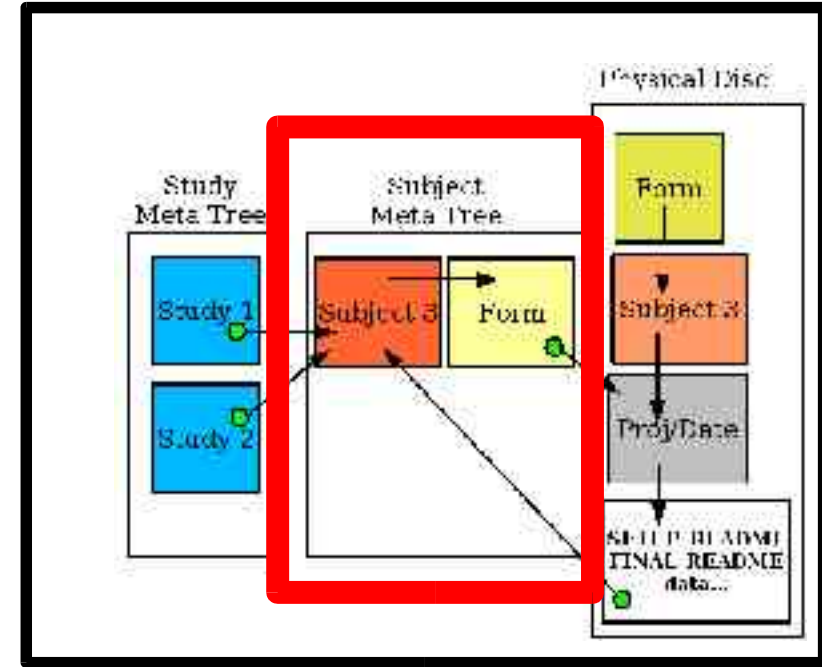
Here is an
example of a
**SUBJECT META
TREE...**



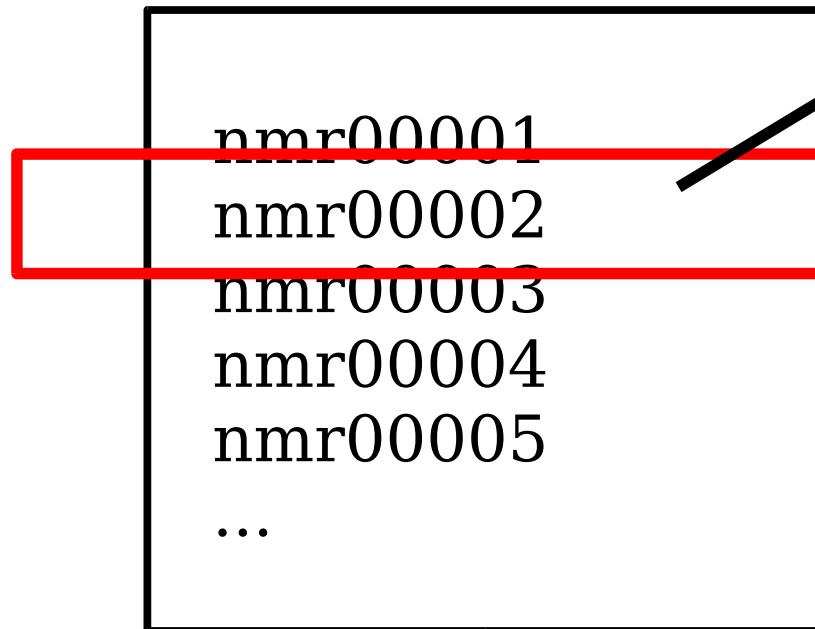
subject_meta

```
nmr00001  
nmr00002  
nmr00003  
nmr00004  
nmr00005  
...
```

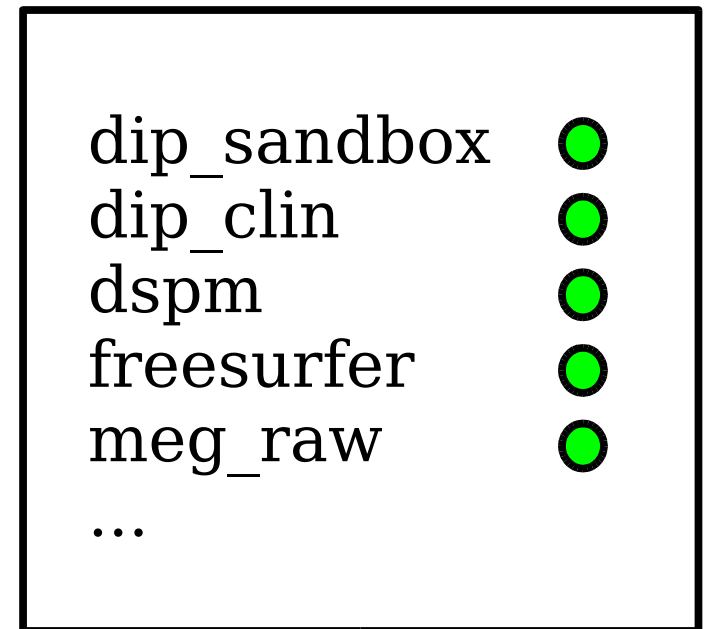
Here is an example subject:
nmr00002...



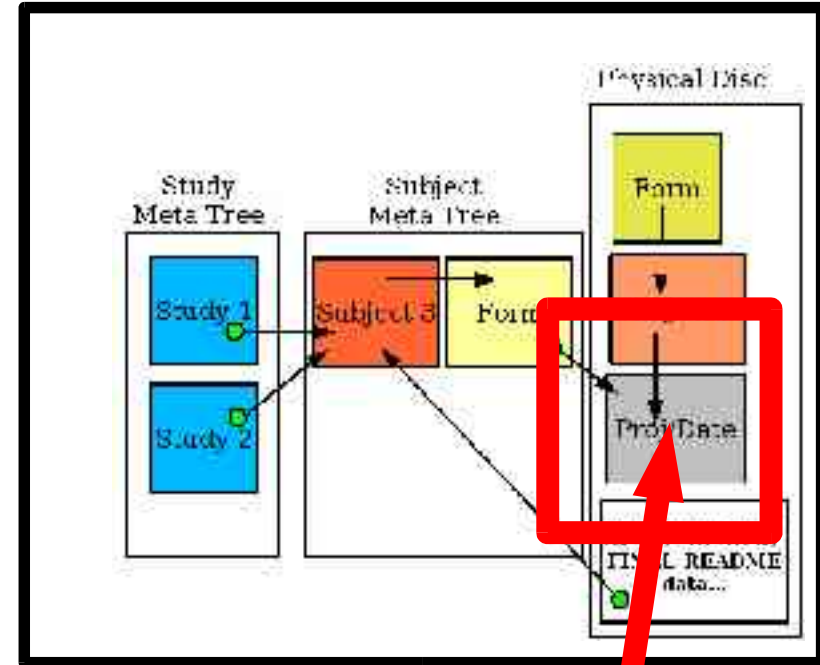
subject_meta



nmr00002



Symbolic links point to physical data folders.



subject_meta

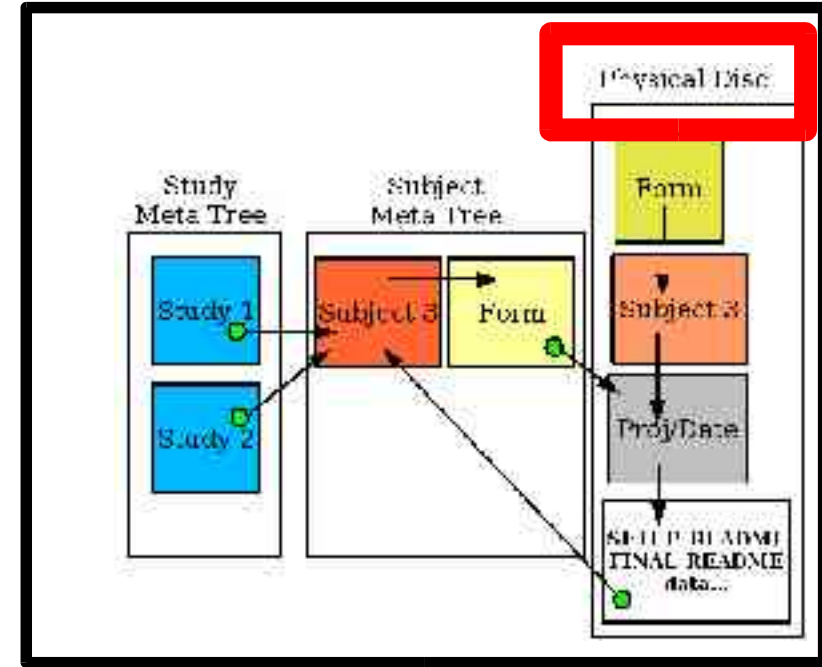
```
nmr00001
nmr00002
nmr00003
nmr00004
nmr00005
...
```

nmr00002

```
dip_sandbox
dip_clin
dspm
freesurfer
meg_raw
...
```

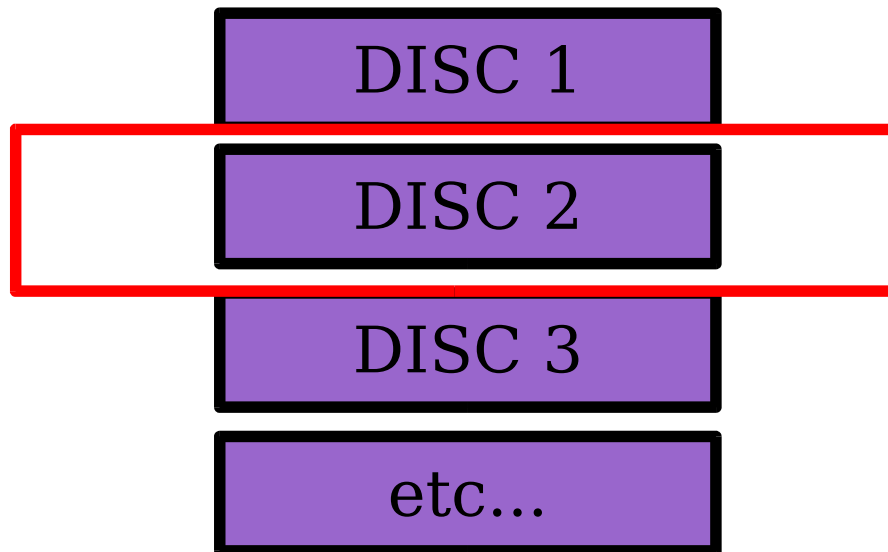
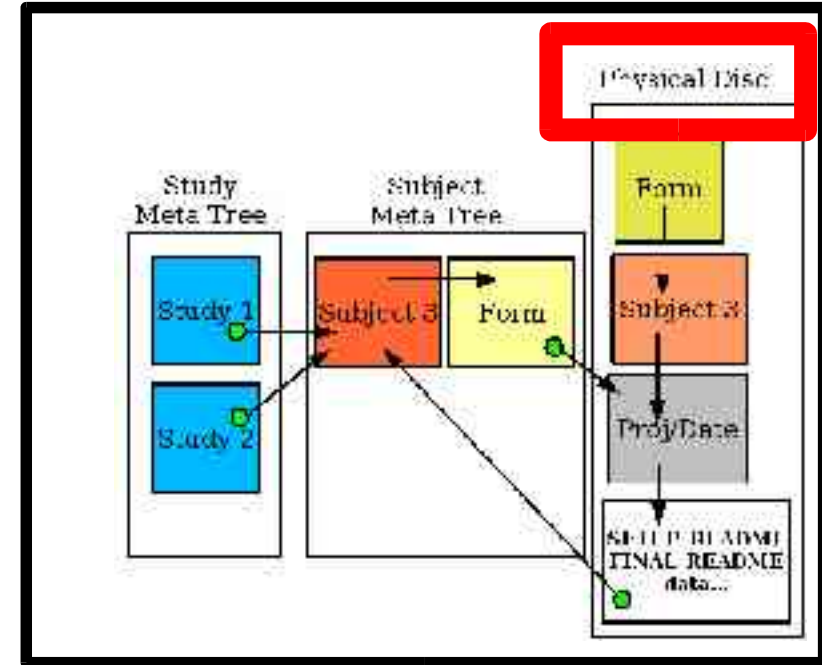
A red box highlights the first five folders in the 'nmr00002' directory: 'dip_sandbox', 'dip_clin', 'dspm', 'freesurfer', and 'meg_raw'. Each folder name is followed by a green circle. A red arrow points from the 'Form' box in the 'Physical Disc' diagram above to the 'dip_sandbox' folder.

Every data form
lives somewhere,
on a **PHYSICAL**
DISC.

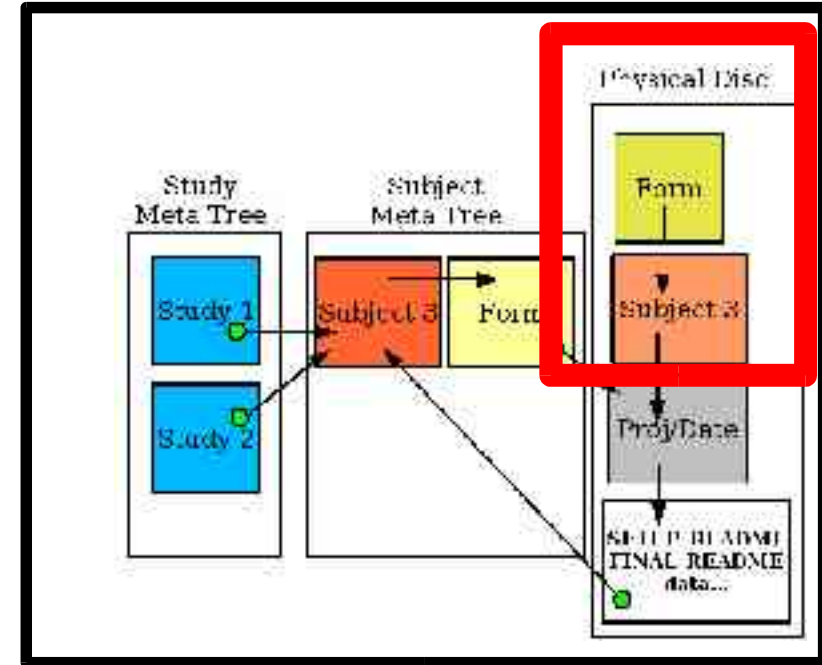


- DISC 1
- DISC 2
- DISC 3
- etc...

For instance,
consider “dspm”.
Let's say it lives
on DISC 2...



Here is the dspm folder...

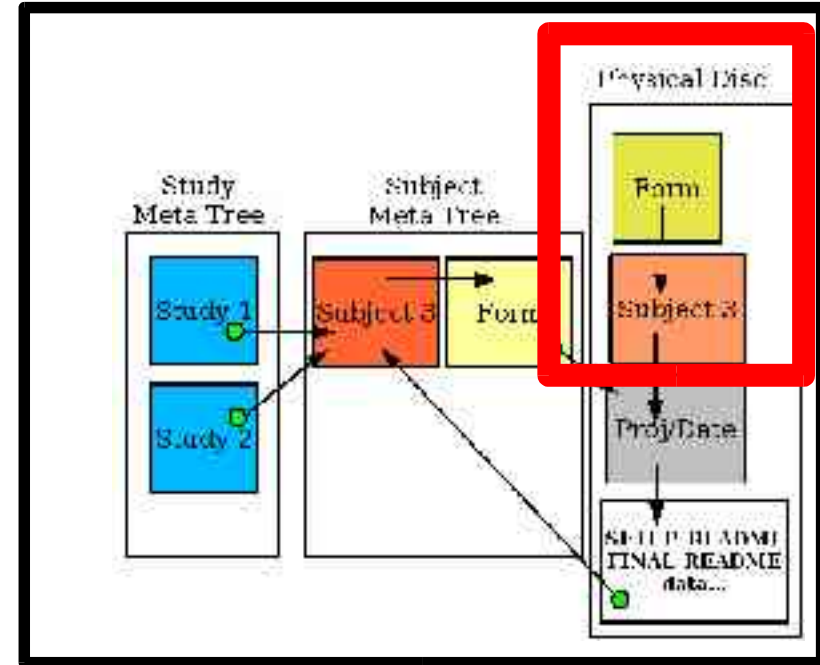


dspm

```
nmr00002  
nmr00020  
nmr00023  
nmr00033  
nmr00084  
...
```

Here is the dspm
folder...

Note nmr00002.



dspm

nmr00002

nmr00020

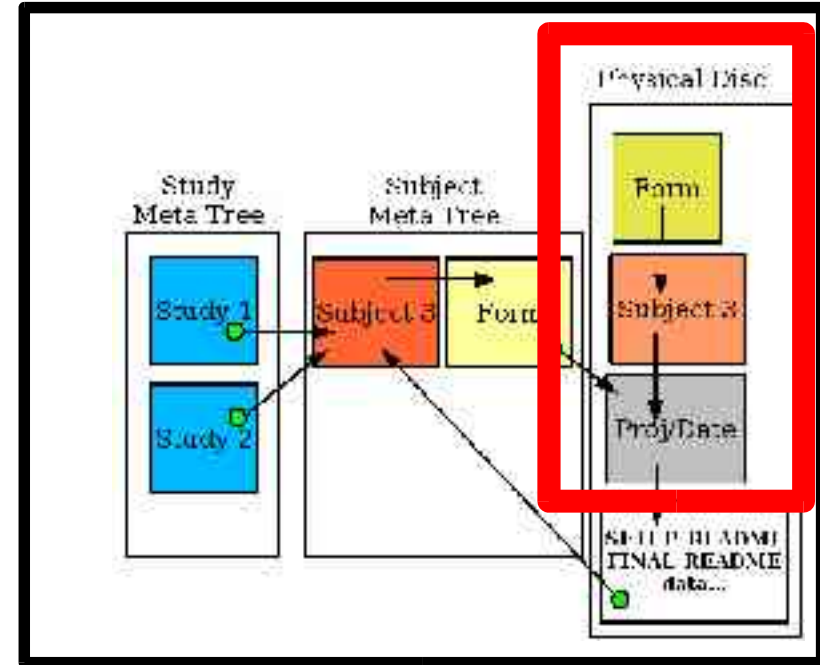
nmr00023

nmr00033

nmr00084

...

Here is example contents of nmr00002...



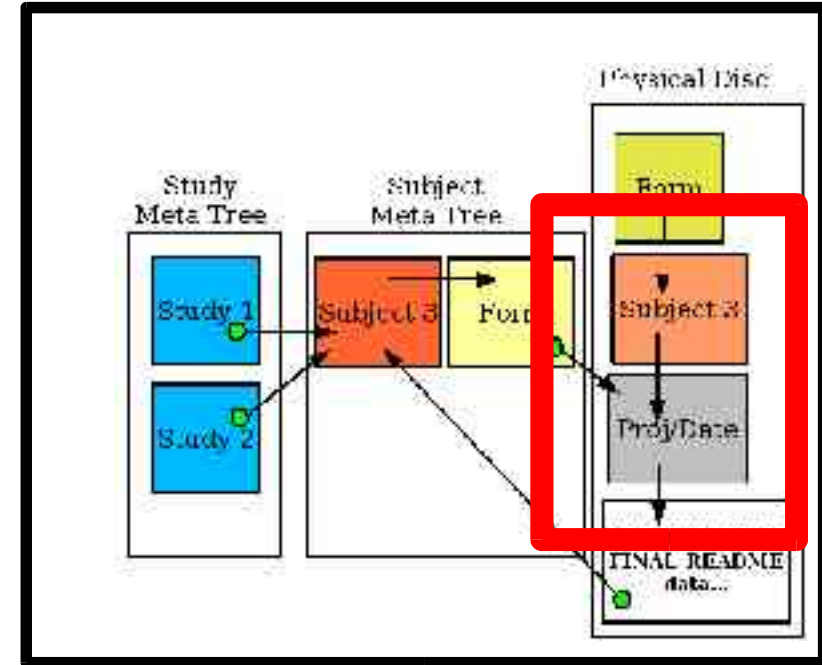
dspm

```
nmr00002
nmr00020
nmr00023
nmr00033
nmr00084
...
```

nmr00002

```
epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10
...
```

Lets look inside that folder...

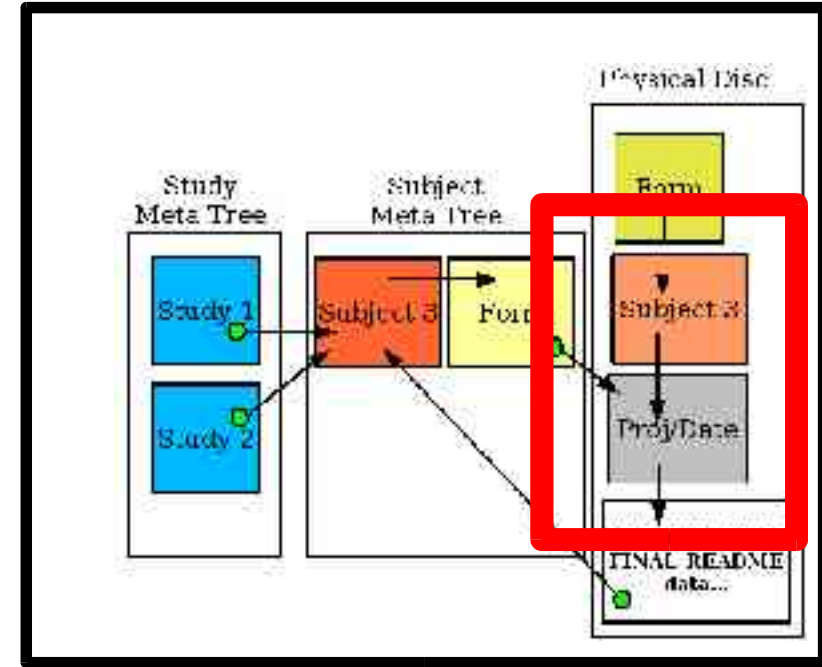


nmr00002

epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10

...

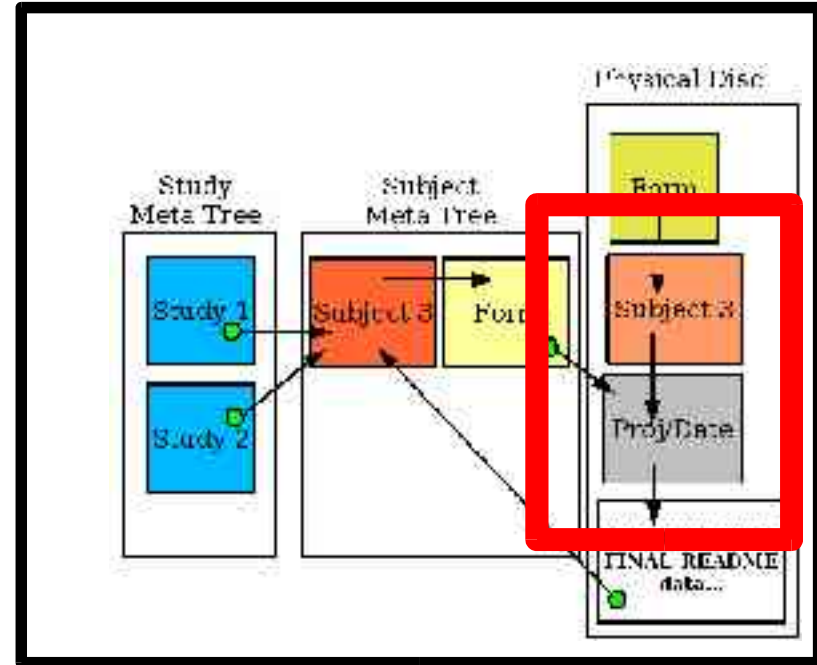
Each entry is a study name then a date.



nmr00002

epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10
...

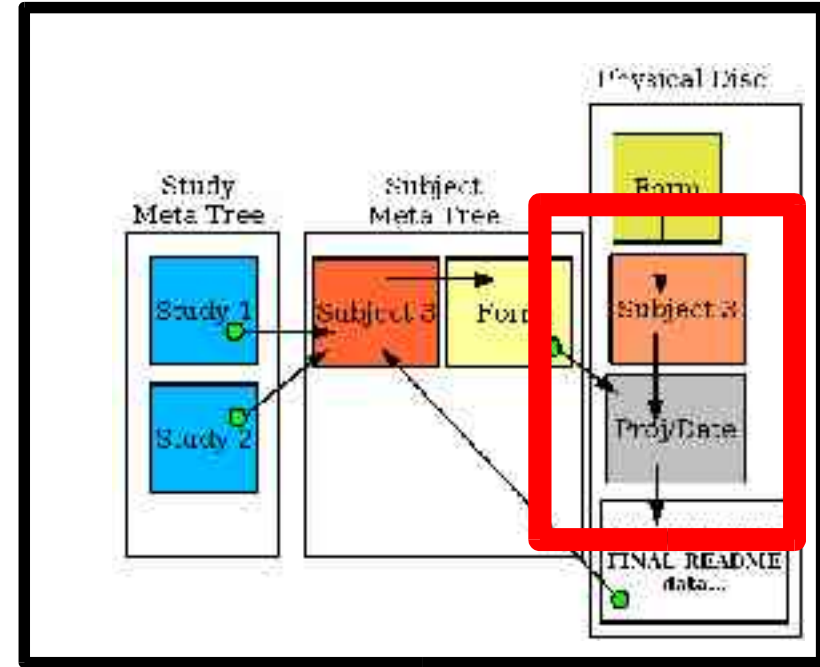
Each entry is a study name then a date.



nmr00002

epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10
...

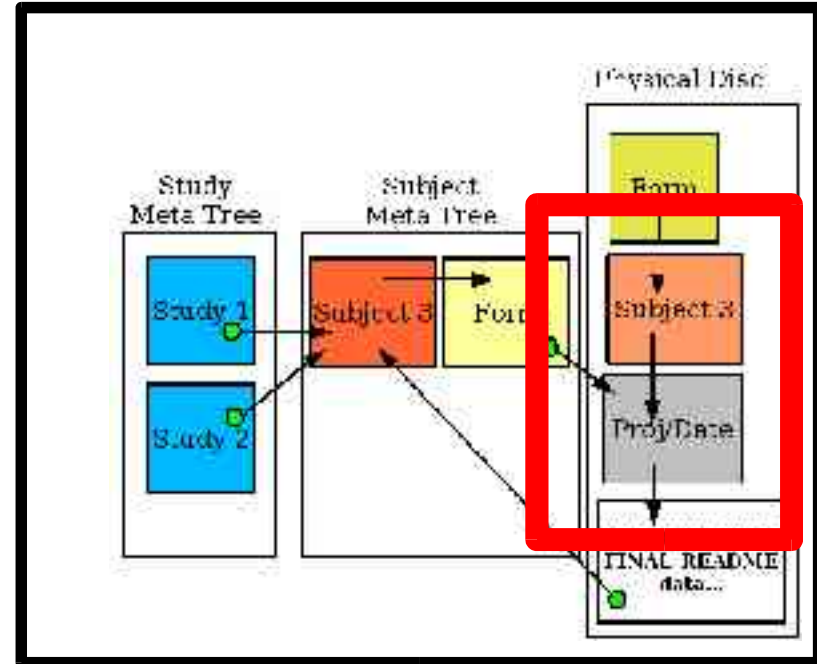
Each entry is a study name then a date.



nmr00002

epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10
...

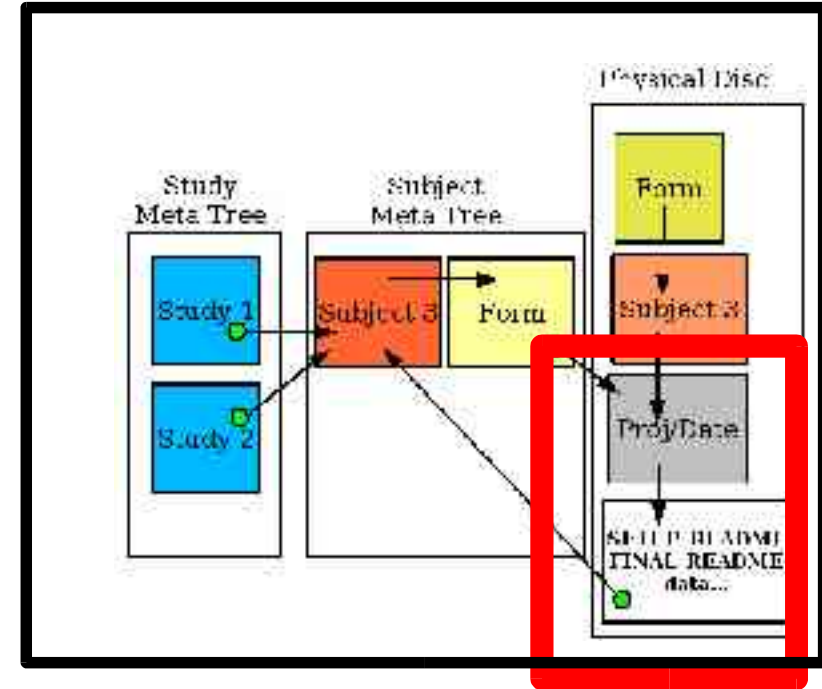
Inside each of these is real data...



nmr00002

epilepsy_2004_03_02
epilepsy_2004_06_01
epilepsy_2005_01_21
language_1999_08_10
...

Lets look inside an example...



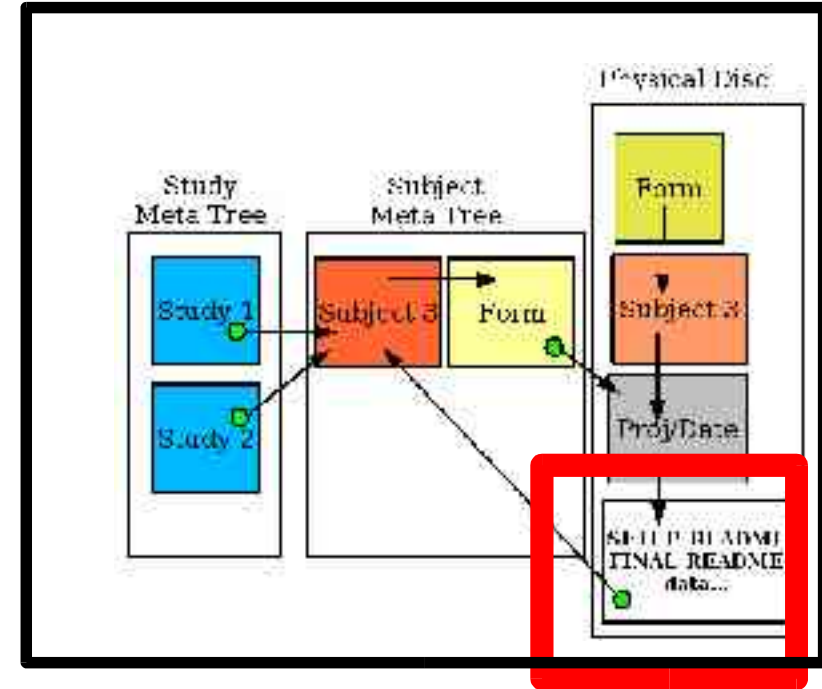
nmr00002

epilepsy_2004_06_01

```
epilepsy_2004_03_02  
epilepsy_2004_06_01  
epilepsy_2005_01_21  
language_1999_08_10  
...
```

```
meta_nmr00002/ ●  
SEDER_SETUP_README.txt  
SEDER_FINAL_README.txt  
dspm_file1  
dspm_file2  
...
```

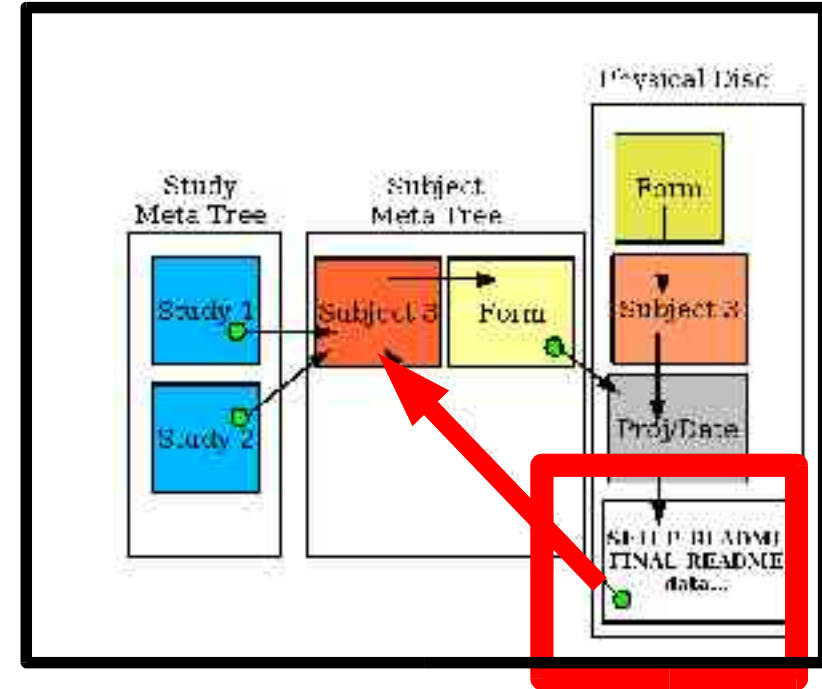
There are three key things here...



epilepsy_2004_06_01

```
meta_nmr00002/ ●  
SEDER_SETUP_README.txt  
SEDER_FINAL_README.txt  
dspm_file1  
dspm_file2  
...
```

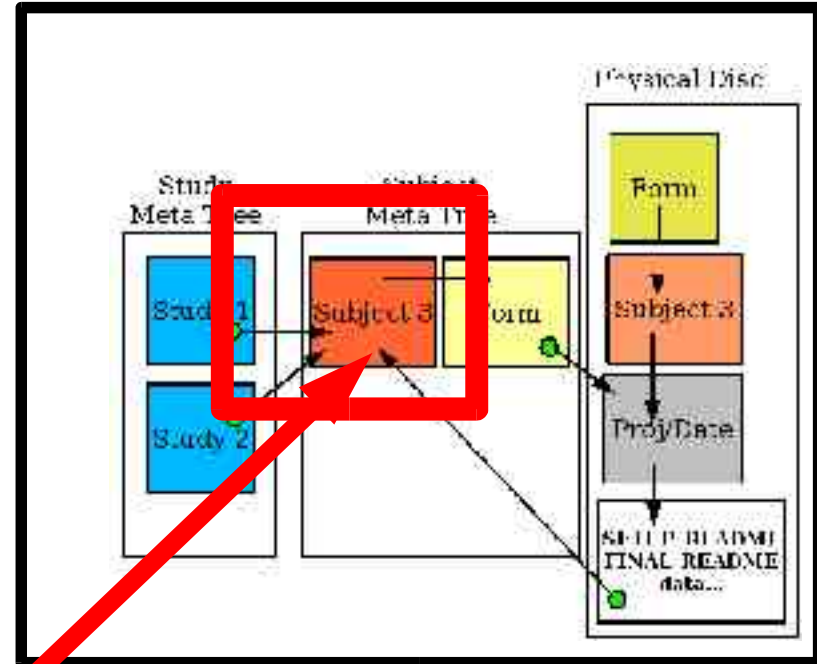
1. The meta link,
back to this
subject's folder...




epilepsy_2004_06_01

```
meta_nmr00002/ ●  
SEDER_SETUP_README.txt  
SEDER_FINAL_README.txt  
dspm_file1  
dspm_file2  
...
```

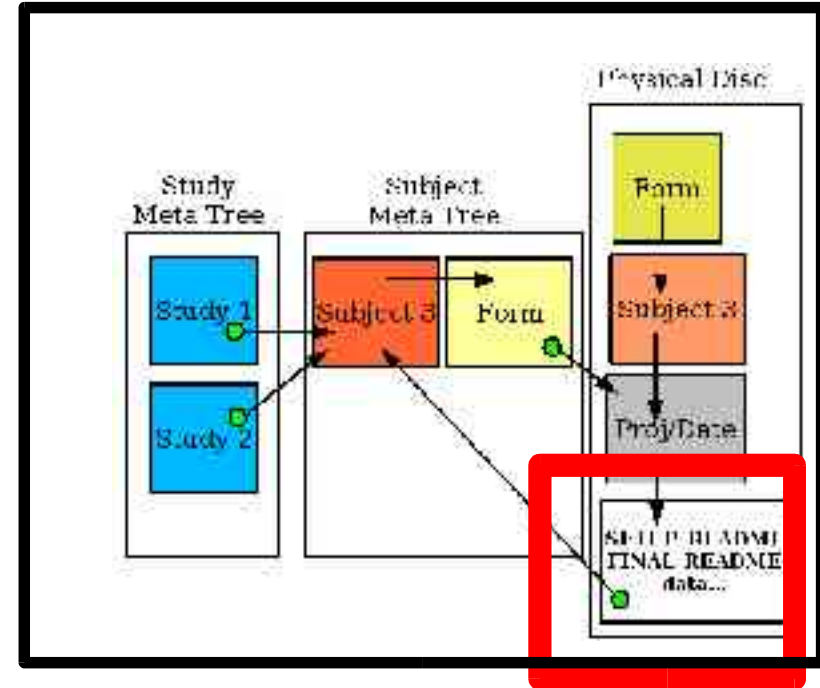
That link goes
back to the
subject meta tree.



epilepsy_2004_06_01

meta_nmr00002/ 
SEDER_SETUP_README.txt
SEDER_FINAL_README.txt
dspm_file1
dspm_file2
...

2. The SETUP README file...

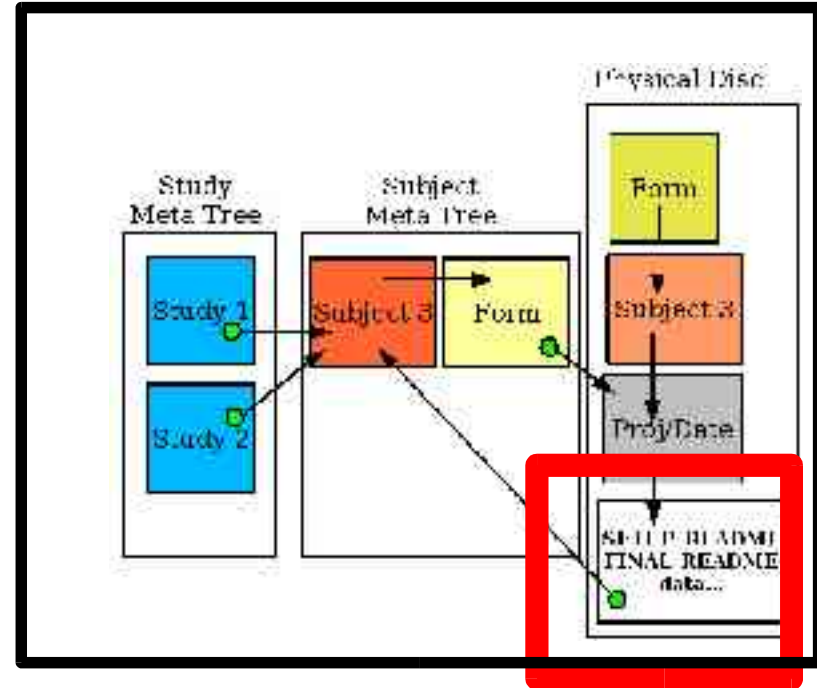


epilepsy_2004_06_01

```
meta_nmr00002/ ●  
SEDER_SETUP_README.txt  
SEDER_FINAL_README.txt  
dspm_file1  
dspm_file2  
...
```

The SETUP README looks like this:

SEDER_SETUP_README.txt



NMR ID: nmr00005

Study: study1

Creator: daniel

Date: 2004_06_01

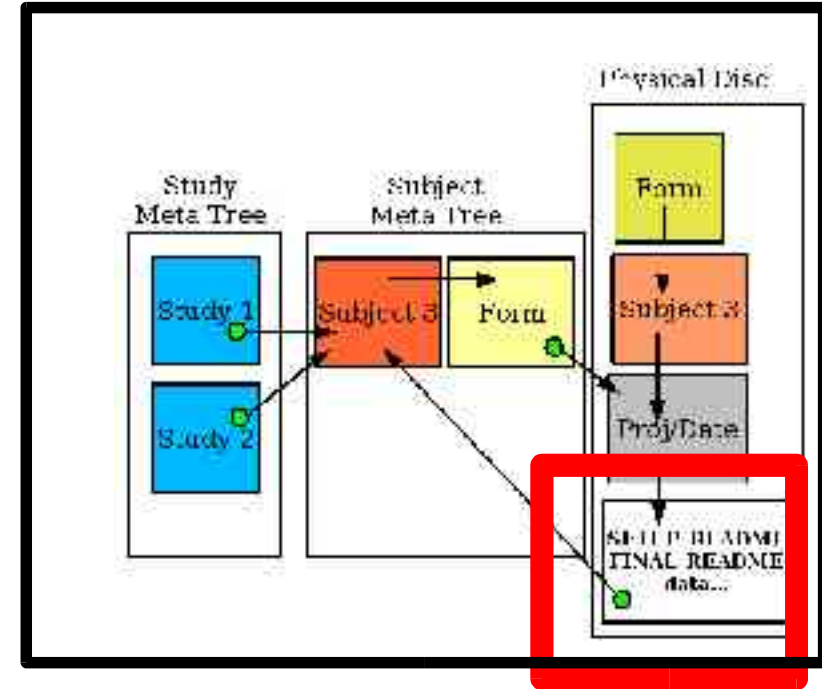
Dependencies:

meg_raw/study1_2002_12_27

INITIAL NOTES (below this line)

DSPM to find propagation...

3. And the FINAL README file.

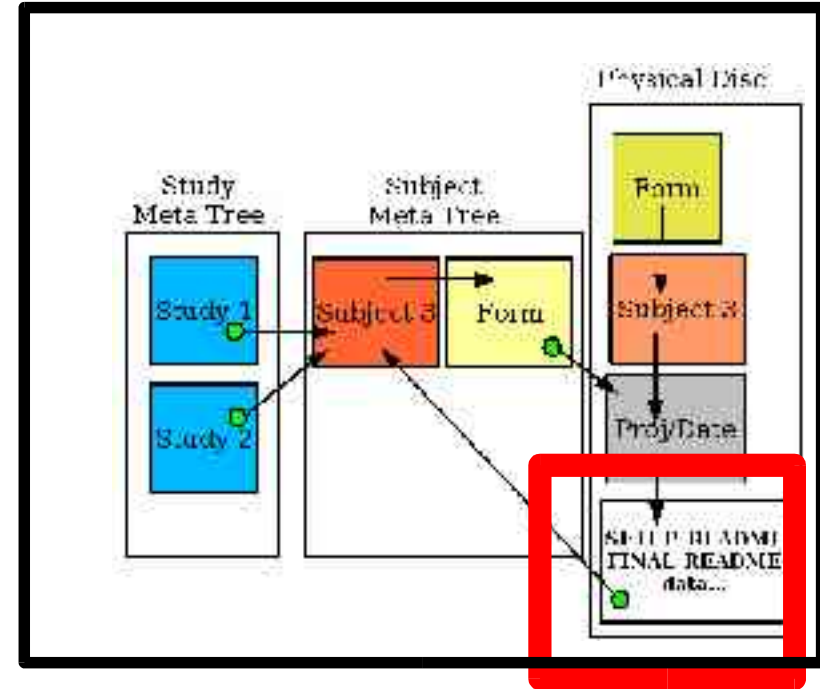


epilepsy_2004_06_01

```
meta_nmr00002/ ●  
SEDER_SETUP_README.txt  
SEDER_FINAL_README.txt  
dspm_file1  
dspm_file2  
...
```

The FINAL README looks like this:

SEDER_FINAL_README.txt



Commands Used:

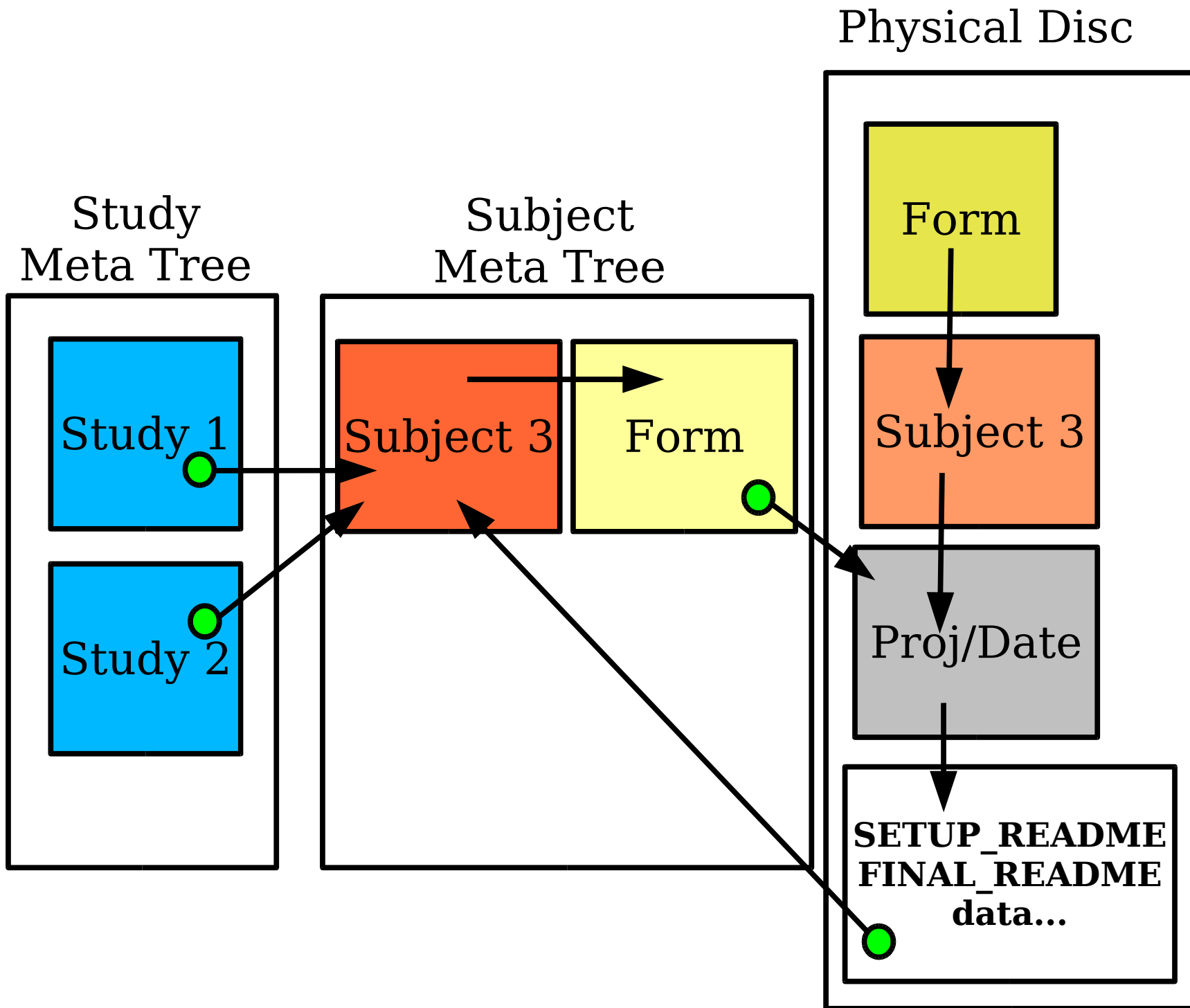
meg_average 1.1.3

mne_analyze 2.3.1

...

FINAL NOTES (below this line)

Propagation effect not found.



RULES OF THUMB



- SUBJECT NAMES
- DATE FORMAT
- DATA FORMS

RULES OF THUMB



- **SUBJECT NAMES**

- Always start with "nmr"
- Have 5 digits
- Are assigned automatically
- Example:
 - nmr00018

RULES OF THUMB



- **DATE FORMAT**

- Year first
- Then month
- Then day
- Zeros needed for single digit values
- Example:
 - 2005_01_28

RULES OF THUMB



- **DATA FORMS**

- Specific types
- Names must be correct each time
- Some examples:
 - meg_raw
 - clinical_info
 - dip_sandbox
 - freesurfer

SEDER

