



Deliverables: 9 October 2017



AVATR



From Last Week

- Revise SoW ✓
- Submit Grant ✓
- Tech Evaluation for OpenNeuro ✓
- Tech Evaluation for CLOWDR ✓

This Week:

- Confirm need for annotation plugin (talk to Eric, NOMADS)
- Scope technical components necessary
- Proof-of-concept for annotation plugin
- Feedback on annotation plugin
- Wireframe for annotation plugin infra

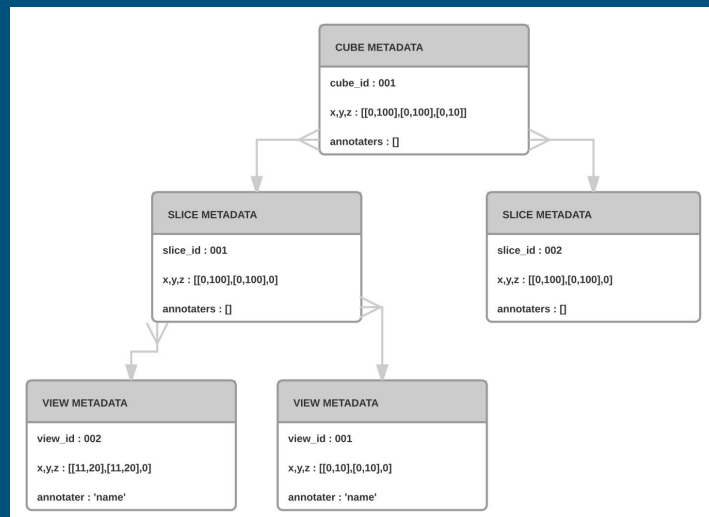
From our talk with Eric and NOMADS...

- Current Problems with Annotating Data
 - Difficulties validating which part of data annotation is for
 - Pulling data from BOSS and other sources is a hassle for neuroscientists
 - No automatic way to extract and upload annotations
- There is a need for a “fluffy” annotation plugin
 - Make labeling as painless as possible for labelers
 - Build good software to do the rest



Technical Components

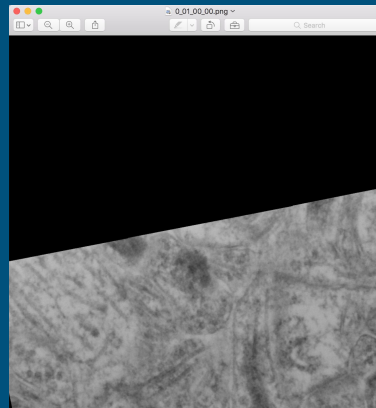
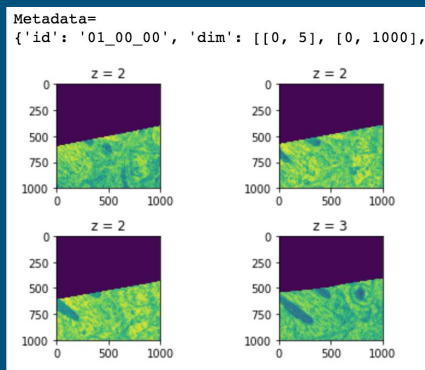
1. Pull cube of data from Boss (and eventually from other sources)
 - a. ND Resource + Intern
2. Organize cube into annotatable “views”
 - a. Keep track of spatial location of cube
 - b. Slice cube into annotatable views of data
3. Attach metadata to each view
 - a. Object-based
 - b. EXIF-based
4. Serve view to annotator
5. Upload annotated view with metadata



Proof of Concept (version 0)

1. Pull cube of data from BOSS using ND Resource
2. Compress cube with metadata as binary file (using pickle)
3. Annotator can call script which loads cube and serves next available view.
4. Annotator can call another script to upload annotated image (Incomplete)

[Link to notebook](#)



Feedback from NOMADS

- Need to make annotation plugin more fluffy!
 - Labelers shouldn't have to ever touch the data
- Ideally create a web service to:
 - Authenticate users so you know who labeled what
 - Allow users to request a view to annotate
 - Display view in canvas where users can then annotate
 - Allow users to submit when done annotating

For Next week:

- Begin work on the “ideal web service”
 - Version 1: Locally hosted web service that can:
 - pull and slice cube from BOSS
 - give users a single view with attached metadata
 - let users push annotated view to S3 bucket

