

Hiding uninteresting complexity - use cases

- Multi-part datasets
- Complex reports
- Ross provided use cases
- Dan did all the hard work

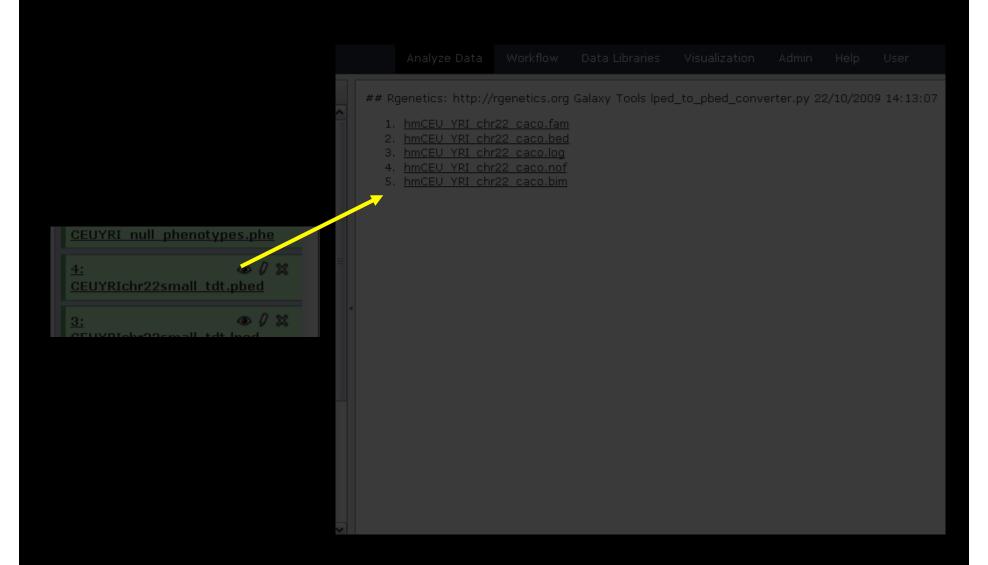
Multi-part datasets

- EG –bed/bim/fam for genotypes
- Genotypes, map, pedigree
- Must have all 3 components
- Kept together or broken
- Users generally not interested
- Hide complexity in a subclass
- lib/galaxy/datatypes/genetics.py

Subclass the Html datatype

- Derived from Image
- Displays self as web page
- Content can be written by creator
- Legal HTML document
- Links -> files_path
- The foo plot
- (extra_files_path in post hook!)

Eg: SNP/WGA lped datatype



Benefits

- User sees single history object
- First class datatype
- Tools understand layout
- Look in files_path for components
- Upload, save..should Just Work™
- If not, buy Dan a beer...

Complex outputs => 1 history item

- WGA QC
 - Marker QC
 - Missingness, HWE, freq dist
 - Sample QC
 - Missingness, Fst, (Mendel errors if family)
- (Ancestry PCA, Cryptic relatedness..)
- Goal is to set filter thresholds
- Move to library
- Uniform analysis starting point

Complex outputs – 1 history item

- Dozens of tab files, pdfs, log outputs
- Individually interesting
- Don't want history cluttered
- Use an html file as output
- Write outputs to files_path
- Generate HTML for Html object content
- Local links -> datasets in files_path

Complexity Hidden

