

git/mrb pre-cutover walk-through

Eric, Yale, 6-Jan-2014

Schedule

- Rick's team would like sign-off in next 10 days, so as to go live with production version of new git/mrb-based LArSoft.
- What will happen is svn repository will be frozen to svn ci's. It will be svn2git'd. The new git repository will be opened for business. Jan 22 is hoped-for date.

Reminder

- Our old build system, SRT, is being replaced by mrb. Nevermind what these acronyms may stand for.
- SRT basically gave you your Makefiles and a bunch of envt variables to build your code and use other code in public area. You said 'make' and libraries were put in your area to run against when you said 'lar -c something.fcl'
- mrb does the same, effectively. See the nice table on the quickstart page: [Comparison of mrb and SRT commands](#)

slightly more detail

- Rather than getting your Makefiles all handed to you as in SRT, you get CMakeList.txt files on which cmake is run to produce the Makefiles. You should not have to tinker with these, as you did not either in SRT. Boilerplate
- Everything is ups-ified. Meaning, libraries live in precisely versioned areas, and they must be set up. Even those you make yourself in your own area. We used to have one foot in this world and the other in a world of a hodgepodge of directories.

repository change

- svn goes away
- git takes its place
- branching is easier and cleaner, but also more full of features that one may need to be on the look out for.

Structure of today's session

- I/someone will basically walk through the key bits of https://cdcvs.fnal.gov/redmine/projects/larsoft/wiki/Quick-start_guide_to_using_and_developing_LAr_Soft_code
- Watch screen/Readytalk: 3277957/6017 866.740.1260

Validation

- It will remain to do validation of this release (cut on 25-Nov-2013) against the old SRT-based release.
- Wes has some samples in the SRT-based release.
- I have a root file from ___s in. Maybe we'll get some way today toward validation ...

git

- The MicroBooNE DAQ group has some git experience. We have no experience with gitflow, which to me looks like a tool to manage branch proliferation.
- I will end this session with some git manipulation of our larsoft code, but defer gitflow to an expert at another time
- Glenn's very nice <https://cdcvs.fnal.gov/redmine/projects/uboone/daq/wiki/Git> hints. Add your tips! Ignore the daq paths!

and now

- let's type some commands ...