

Github for HPS EPICS

# General comments

- CLAS12 offline and online software will be using Github as the software source code repository.
  - Uses git versioning system.
- For the Hall B online code, the location of the repositories is in the Sergey Boyarinov's area:
  - <https://github.com/boiarino17>
  - EPICS repository URL is <https://github.com/boiarino17/epics>
- We decided that using the same github repositories for EPICS as the CLAS12 will be beneficial to HPS controls group.
- All code development needs to happen in the private work areas, and the final result are pushed into the “central” repository.
- The code in the official build area need to be obtain from the github repository.

# Getting and contributing to HPS EPICS

- Open an github account using some e-mail address,
  - <https://github.com/>
- Fork ***epics*** repository from Sergey's area into your account,
  - Look for the "Fork" button in the upper right corner
- Clone the ***epics*** repository into your local computer,
- Make modifications in your work area,
- Push your changes into your github original repository,
- From your github repository pull-request to propagate your changes into the Sergey's ***epics*** repository,
  - Will send a request for Hovanes' or Sergey's approval.
  - After approval your modifications will be merged into the HPS EPICS central repository.
- Wesley suggested a link for workflow:
  - [http://www.eqqon.com/index.php/Collaborative\\_Github\\_Workflow](http://www.eqqon.com/index.php/Collaborative_Github_Workflow)

## Wesley's notes:

- Create account on <https://github.com>
- Go to <https://github.com/boiarino17/epics> and fork (button found at top right).
  - Now you have your copy of the epics tree to edit.
- On your local machine, configure git (this creates `~/.gitconfig`):
  - Configure your identity. Example:
    - `git config --global user.name "Wesley Moore"`
    - `git config --global user.email wmoore@jlab.org`
  - Configure proxy (as needed):
    - `git config --global http.proxy http://jprox:8082`
    - `git config --global https.proxy https://jprox:8082`
- Clone your repo to local filesystem:
  - `git clone https://github.com/<YOUR USERNAME>/epics`
- Now you can make changes. Example:
  - `touch mycode.c`
  - `git add mycode.c` (stage the change for the next commit)
  - `git commit -m "Added my new code"` (this will act as a regular commit)
  - `git push origin master` (when all done, "push" all local commits back to github)