Making the Green Electronics Repo Your Own

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This tutorial will show how to clone the green electronics repository hosted on Github and copy it into a private repository that you can manage and share with others. Following this tutorial will also allow you to pull patches in the future from the original green electronics Github repo.

READ THIS FIRST!!

One member of the team will have to create a private repository on Bitbucket using the steps below. All the other team members should also create Bitbucket accounts and skip to the end of the tutorial to remap their Git remotes to the private team repository after it has been created.

Clone the Repo

The first step is to clone the git repo from Github.

git clone <u>https://github.com/ndanyliw/green-electronics.git</u>

(If you have already cloned the repo, make sure your changes are committed and pull the latest code).

You now will have a local copy of the git repository on the machine which means you can commit code locally and pull from the upstream source. However you do not have push privileges to the Github repository so you cannot push changes to a remote target. If you just wanted to use git locally you could stop here. But, you most likely will want to host a private repository so you can collaborate with teammates on your code. To do this we recommend using <u>Bitbucket</u>.

Creating a Private Repository

For the purpose of this tutorial, we will assume you will use Bitbucket to host your private repo. If this is not the case, you will need to modify some of the commands used. Only one teammate should do this step and everyone else should clone their private repository.

First make sure you have created a Bitbucket account. After doing so, just run the "init_bitbucket" script which will prompt you for your username and password and then work its git magic.

./init_bitbucket.sh

After running the script, you will have created a private repository on Bitbucket hosting your code and mapped that as your "origin" (where your default git push and pull go). To get the latest code from the class Github use git pull upstream master. It is recommended to do this at minimum before starting each lab as bugfixes and starter code will be added throughout the quarter.

Adding Collaborators

The last bit after creating the private repository is adding collaborators to your project who have access to it. To do this navigate to your repository on Bitbucket.

E Bitbucket Dashboard - Teams - Repositories - Snippets - Create - Find a repository Q 🕐 👤 -							
0	Overview	Ĺ	y SSH∓ git@bitbu	cket.org:ndanyliw/ee155_test.g.			
للا	Last updated 2015-09-22 Language — Admin	1 Branch	0 Tags	Invite users to this repo			
¢		0 Forks	1 Watcher	Recent activity			
đ	Edit README Edit README 1 commit Pushed to ndanyliw/ee155_test						
¢	Green Electronics Repo						
-14-	Libraries and code base for Stanford Green Electronics (EE155). This repository contains resources required for completing the labs and final project.			28 commits			

Click the "Share" button on the upper left and then "Manage this repository" on the dialog box that appears. From this menu you can add your teammates and adjust their access privileges.

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Your teammates should now be able to clone this repository.

Remapping to Group Repository

All your teammates will now need to remap their Git remote repositories to point to the group repository by default and still track the shared class repository. Each teammate will need to run the following commands from the "green-electronics" repository:

git remote add upstream https://github.com/ndanyliw/green-electronics.git

git remote set-url origin <url of team bitbucket>

This will now allow everyone to pull and push from the team repository (assuming they have been added as collaborators) and pull from the class repository.

To pull updates from the class repository: git pull upstream master

To pull updates from the team repository git pull origin master

To push updates to the team repository

git push origin master