

How To Use Our GitHub

To get started, you will need permission/access to the repository to make changes. Please contact one of the team members to do this (note: you can still follow this guide up until you try to push without permissions).

Downloading The Repository

To download the repository, find a file location where you want to download the repository to. For example: C:\documents\TeamProjects.

Once you have found a location where you would like to download it to, open a command terminal of your choice and execute the following commands:

```
cd <your file location>  
git clone https://github.com/pixsouls/Penta
```

This will download the repository to your local machine.

If you want to update your local repository to match the remote repository, execute the following command (note: if you have changes on your local branch that are not present in the remote, this command may function differently):

```
git pull
```

Note: you must be in the same directory that the GitHub repository was downloaded to.

Creating Your Own Branch

After you download the repository, you will want to create your own branch to work on. To do this execute the following:

```
git checkout dev  
git checkout -b <branch name goes here>
```

Now you have created your own branch locally, to upload this branch to the remote repository you must execute the following (while on you branch):

```
git add .  
git commit -m "Your commit message here"  
git push
```

Updating Your Branch

Note: make sure you are on the correct branch when you do this, it can be very easy to start making changes on someone else's branch if you are not paying attention.

To see what has been modified and to make sure you are on the correct branch execute:

```
git status
```

Updating your branch can be done simply by executing (note: without using any special tools, this will need to be done for each file you have changed):

```
git add <relative file path>
```

OR

```
git add .
```

Note: git add . can overwrite any changes that other people may have made on the remote branch.

After staging the changes, you will commit and upload them by executing this:

```
git commit -m "Your commit message"  
git push
```

Merging branches

To merge your branch into dev, or someone else's branch execute the following:

```
git checkout dev  
git fetch origin  
git merge <Your Branch Name>
```

Note: merging can result in something called a "merge conflict" most of the time you can use your IDE's merge conflict editor to "accept all incoming" if the incoming changes are major, please make sure that your team members are aware that you are performing a merge.

After the merge is complete, you can upload it to remote the same way you would push changes

```
git add .  
git commit -m "your commit message"  
git push
```