

Github Project Instructions

Step 1: Obtain a fork of the original Github project.

Log in to Github.com and navigate to the owatonnaroboits dashboard.

The screenshot shows the GitHub dashboard interface. At the top, there's a search bar and navigation links for Pull requests, Issues, and Gist. Below this is the 'GitHub Bootcamp' section with four steps: 1. Set up Git, 2. Create repositories, 3. Fork repositories, and 4. Work together. On the left, a dropdown menu for switching dashboard context is open, showing 'live0060' as the current context and 'owatonnarobotics' as the selected organization. The main content area shows the 'owatonnarobotics organization!' header and a list of repositories you contribute to, including 'owatonnarobot.../2016RobotC...'. A notification banner at the top right mentions 'A new look for repositories'.

GitHub Bootcamp

- 1 Set up Git**
A quick guide to help you get started with Git.
- 2 Create repositories**
Repositories are where you'll work and collaborate on projects.
- 3 Fork repositories**
Forking creates a new, unique project from an existing one.
- 4 Work together**
Send pull requests, follow friends. Star and watch projects.

Switch dashboard context

- live0060
- owatonnarobotics**
- Manage organizations
- Create organization

owatonnarobotics organization!

Repositories you contribute to

- owatonnarobot.../2016RobotC... 1 ★

Your repositories 0 [+ New repository](#)

Navigate to the 2016RobotCode repository.

The screenshot shows the GitHub interface for the `owatonnarobotics` organization. The main content area displays a list of recent activity, including pushes and forks. The right sidebar shows a list of repositories, with `owatonnarobotics/2016RobotCode` highlighted by a red box.

Activity Feed:

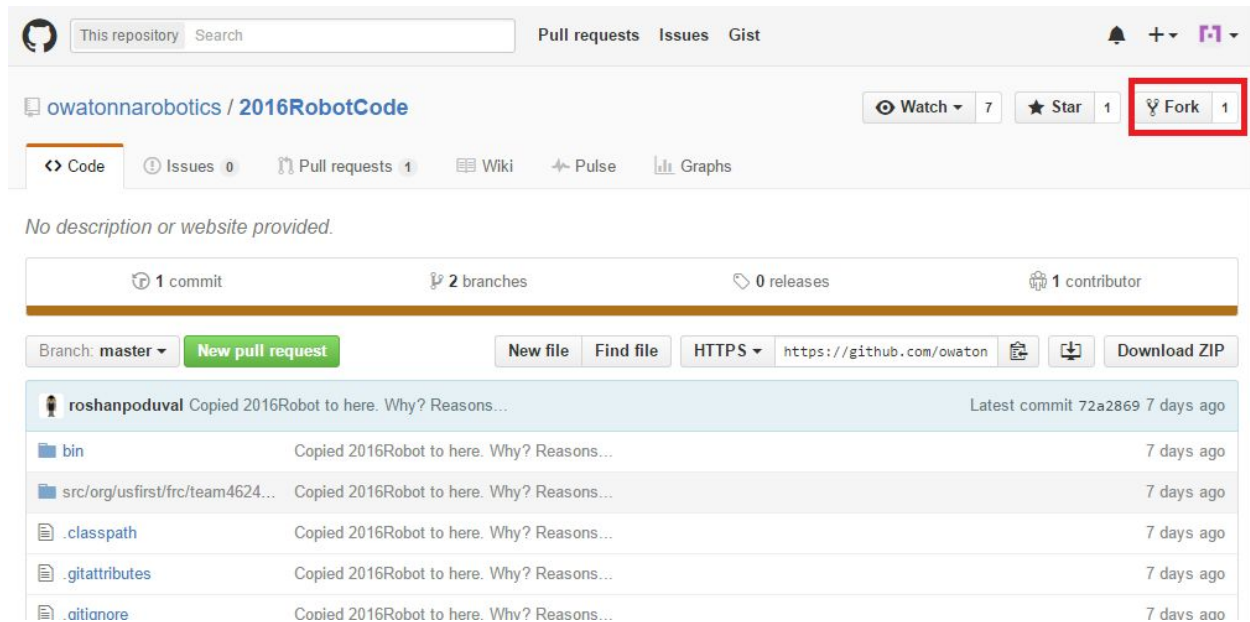
- 21 hours ago: **roshanpoduval** pushed to **beta** at [owatonnarobotics/2016RobotCode](#). Commit: `b767ccc` Did stuff. Broke code. GD!!!
- 22 hours ago: **jakepf00** forked `owatonnarobotics/2016RobotCode` to `jakepf00/2016RobotCode`
- 22 hours ago: **jakepf00** forked `owatonnarobotics/2016RobotCode` to `jakepf00/2016RobotCode`
- 22 hours ago: **jakepf00** opened pull request `owatonnarobotics/2016RobotCode#2` (Beta). 6 commits with 1,074 additions and 12 deletions.
- 23 hours ago: **roshanpoduval** pushed to **beta** at [owatonnarobotics/2016RobotCode](#). Commit: `627947b` Added subsystems and commands
- 2 days ago: (Activity truncated)

Repositories:

- [owatonnarobotics/2016RobotCode](#) (highlighted)
- [owatonnarobotics/2016Robot](#)
- [owatonnarobotics/Login-System](#)
- [owatonnarobotics/2013RobotCode](#)
- [owatonnarobotics/2014RobotCode](#)
- [owatonnarobotics/2015RobotCode](#)
- [owatonnarobotics/XboxController](#)

Subscribe to the `owatonnarobotics` organization news feed


Fork the repository to your Github account.




Select your account.



Profit!!!

 This repository Search

Pull requests Issues Gist

 **live0060 / 2016RobotCode**
forked from owatonnarobotics/2016RobotCode

Unwatch 1 Star 0 Fork 2


[Code](#) [Pull requests 0](#) [Wiki](#) [Pulse](#) [Graphs](#) [Settings](#)


No description or website provided. — Edit

1 commit 2 branches 0 releases 1 contributor


Branch: master [New pull request](#) [New file](#) [Find file](#) [HTTPS](#) <https://github.com/live0060/2016RobotCode> [Download ZIP](#)

This branch is even with owatonnarobotics:master. [Pull request](#) [Compare](#)


 **roshanpoduval** Copied 2016Robot to here. Why? Reasons... Latest commit 72a2869 7 days ago

 bin

Copied 2016Robot to here. Why? Reasons... 7 days ago

 src/org/usfirst/frc/team4624...

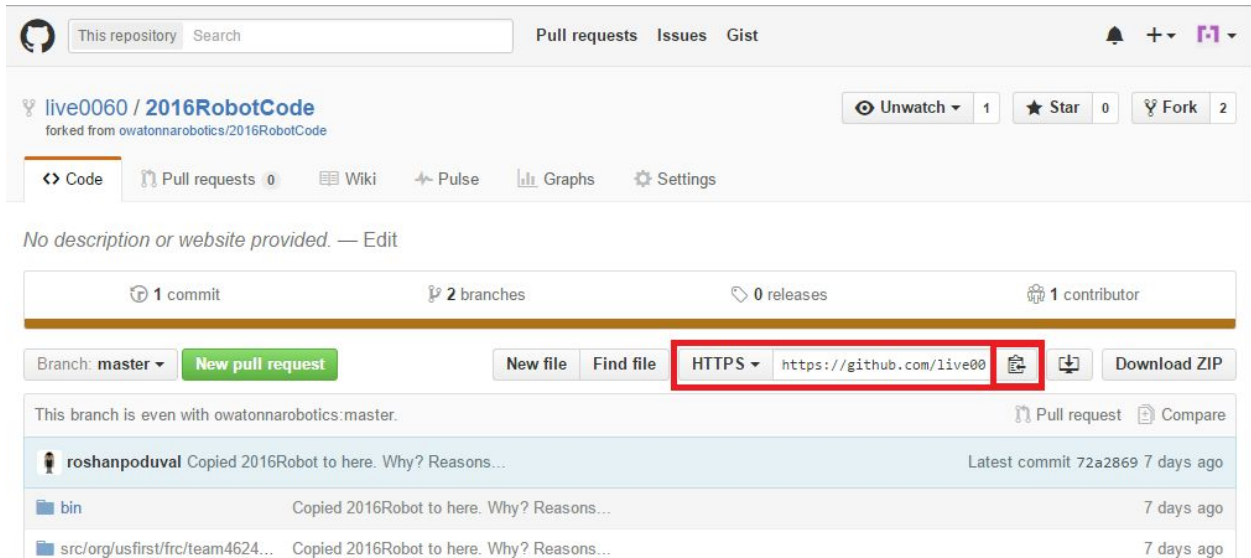
Copied 2016Robot to here. Why? Reasons... 7 days ago

 .classpath

Copied 2016Robot to here. Why? Reasons... 7 days ago

Step 2: Clone the fork onto your computer.

Copy the clone's URL.



The screenshot shows the GitHub interface for a repository named 'live0060 / 2016RobotCode', which is a fork of 'owatonnarobotics/2016RobotCode'. The repository has 1 commit, 2 branches, 0 releases, and 1 contributor. The 'master' branch is selected. A red box highlights the 'HTTPS' clone URL: `https://github.com/live0060/2016RobotCode`. Below the URL, there is a list of files and folders, including 'bin' and 'src/org/usfirst/frc/team4624...', all of which were copied from the original repository 7 days ago.

Open Git Shell. (CMD, Bash, Powershell, etc.)



Enter the following command: git clone <URL>

```
C:\Users\Bologna1\Documents\GitHub> git clone https://github.com/live0060/2016RobotCode.git
Cloning into '2016RobotCode'...
remote: Counting objects: 214, done.
remote: Compressing objects: 100% (114/114), done.
remote: Total 214 (delta 66), reused 183 (delta 35), pack-reused 0
Receiving objects: 100% (214/214), 3.11 MiB | 1.75 MiB/s, done.
Resolving deltas: 100% (66/66), done.
Checking connectivity... done.
```


Navigate to the project folder. Enter the following command: cd 2016RobotCode

Hint: TAB to autocomplete.

Switch to branch “beta”. Enter the following command: git checkout beta

```
C:\Users\Bologna1\Documents\GitHub> cd .\2016RobotCode
C:\Users\Bologna1\Documents\GitHub\2016RobotCode [master]> git checkout beta
Switched to branch 'beta'
C:\Users\Bologna1\Documents\GitHub\2016RobotCode [beta]>
```

Profit!!!

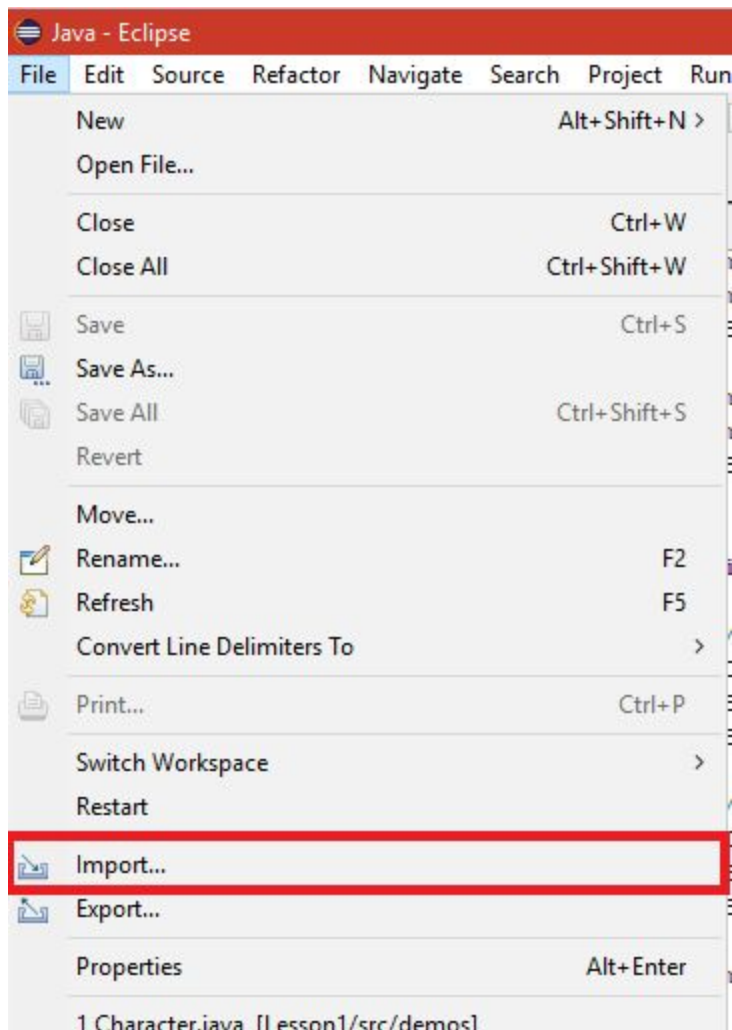
s PC > Documents > GitHub			
Name	Date modified	Type	Size
 2016RobotCode	1/23/2016 4:53 PM	File folder	

Step 3: Open the project in Eclipse.

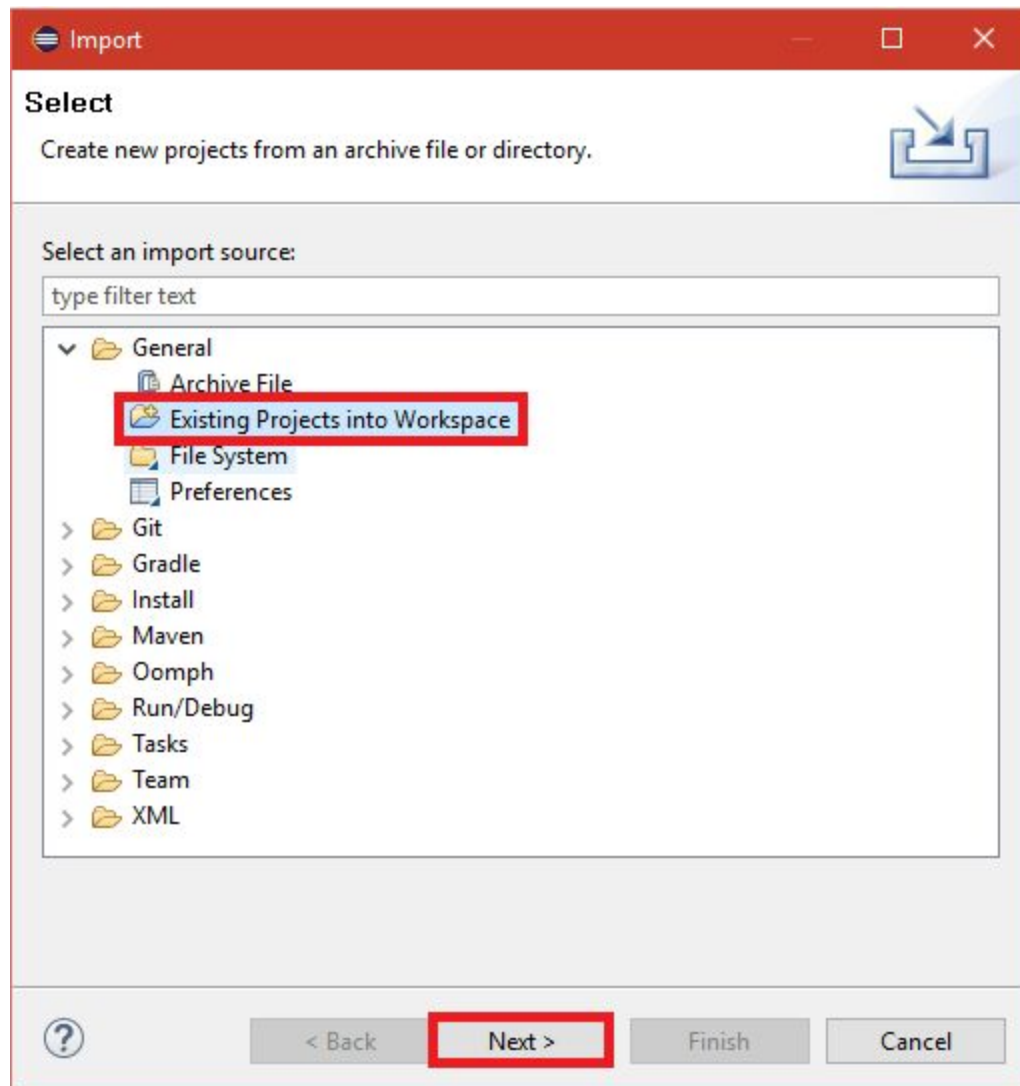
Open Eclipse.



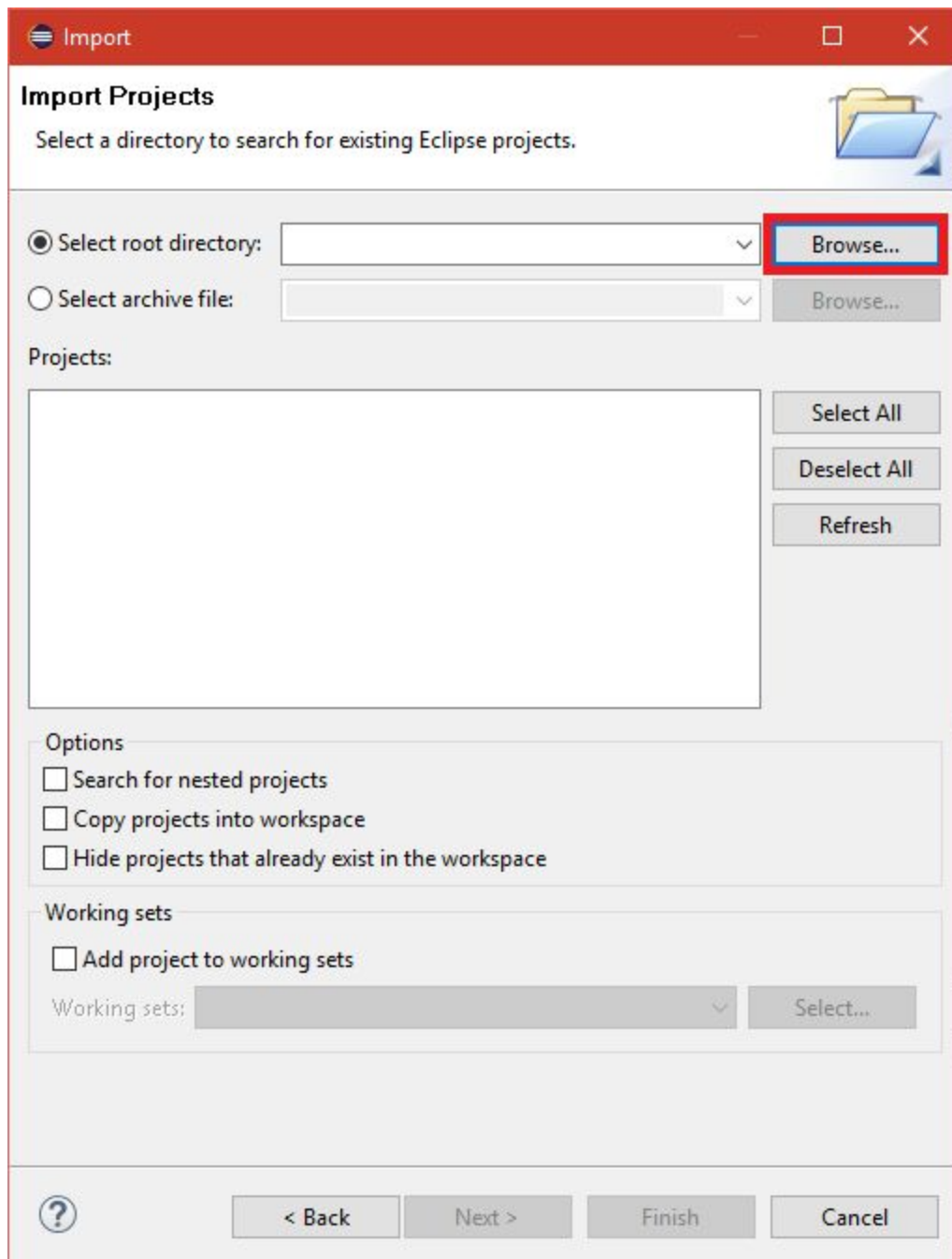
Import the project.



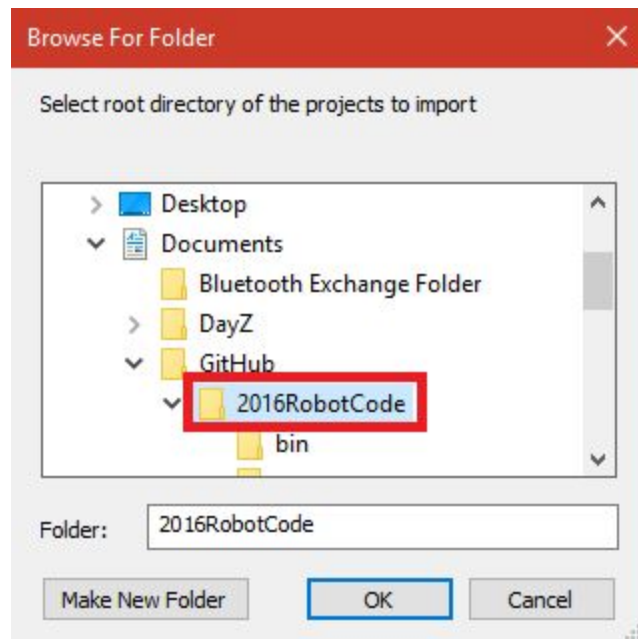
Import an “Existing Project into Workspace”.



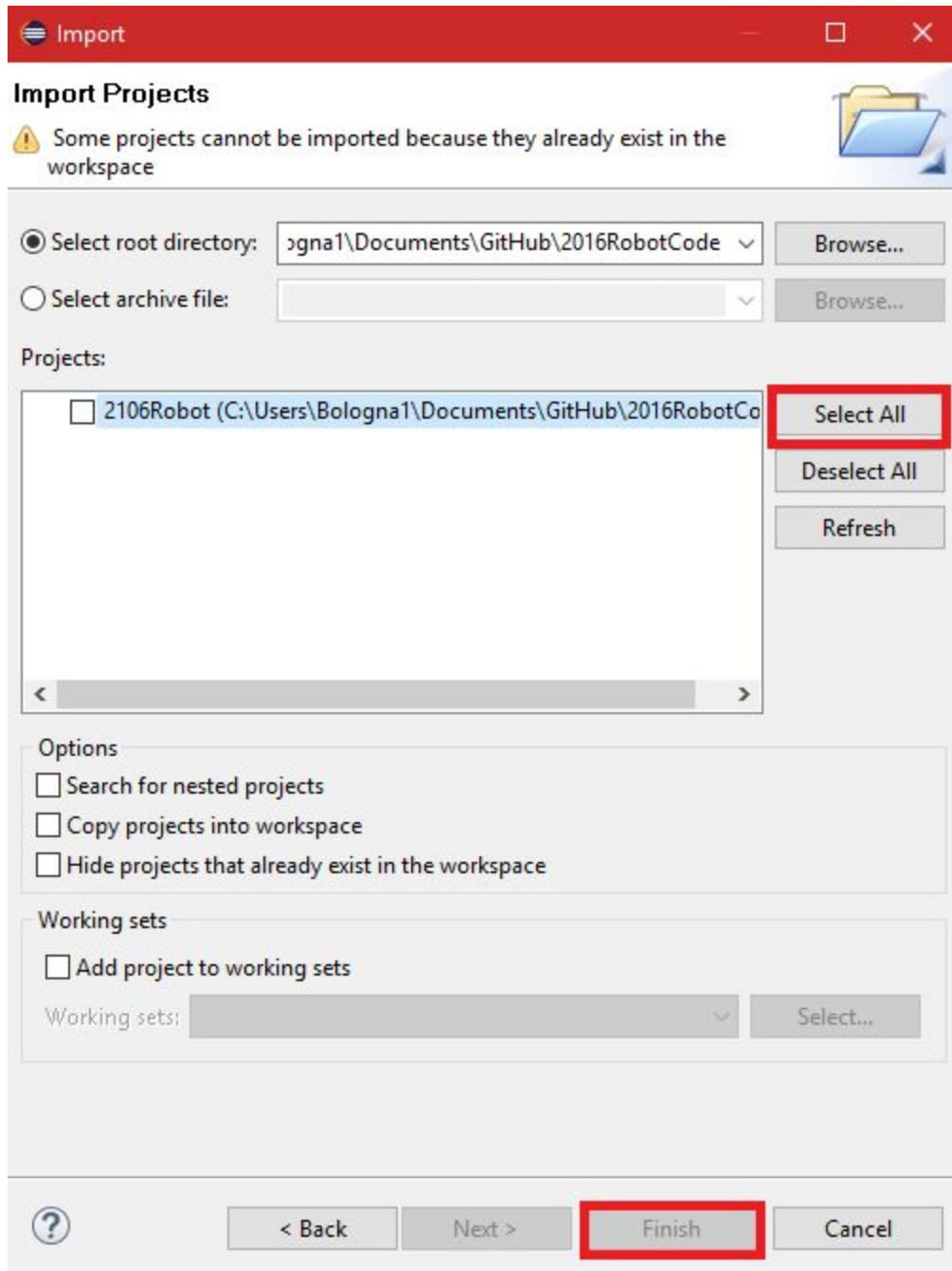
Browse for the project folder.



Select the project folder from your Github folder.



“Select All” and “Finish”.



The image shows a Windows-style dialog box titled "Import Projects" with a red header bar. At the top, a warning icon and text state: "Some projects cannot be imported because they already exist in the workspace". Below this, there are two radio buttons: "Select root directory:" (selected) and "Select archive file:". The "Select root directory:" option has a text field containing "ogn1\Documents\GitHub\2016RobotCode" and a "Browse..." button. The "Select archive file:" option has an empty text field and a "Browse..." button. Below these is a section labeled "Projects:" containing a list box with one item: "2106Robot (C:\Users\Bologna1\Documents\GitHub\2016RobotCo)". To the right of the list box are three buttons: "Select All", "Deselect All", and "Refresh". The "Select All" button is highlighted with a red rectangle. Below the list box is a horizontal scrollbar. Underneath the "Projects:" section is an "Options" section with three checkboxes: "Search for nested projects", "Copy projects into workspace", and "Hide projects that already exist in the workspace". Below the "Options" section is a "Working sets" section with a checkbox "Add project to working sets". Below this checkbox is a "Working sets:" label followed by a dropdown menu and a "Select..." button. At the bottom of the dialog is a footer bar with a help icon (question mark), and four buttons: "< Back", "Next >", "Finish", and "Cancel". The "Finish" button is highlighted with a red rectangle.

Import Projects

Some projects cannot be imported because they already exist in the workspace

☒ Select root directory: ogn1\Documents\GitHub\2016RobotCode

☐ Select archive file:

Projects:

☐ 2106Robot (C:\Users\Bologna1\Documents\GitHub\2016RobotCo)

Options

☐ Search for nested projects

☐ Copy projects into workspace

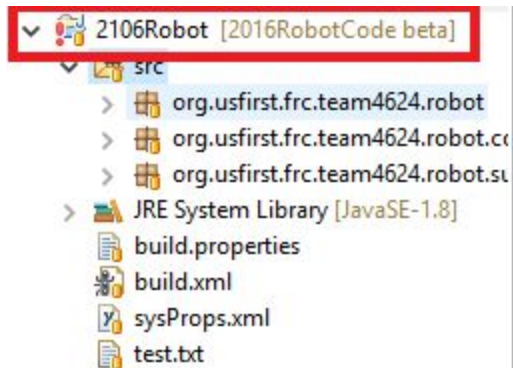
☐ Hide projects that already exist in the workspace

Working sets

☐ Add project to working sets

Working sets:

Profit!!!



Step 4: Make your changes to the project.

OPTIONAL STEPS TO SYNC A FORK WITH ORIGINAL PROJECT:

FIRST TIME SETUP:

Step 1: In Git Shell, navigate to the project folder.

Copy the ORIGINAL PROJECT URL. We want to sync with it.

Step 2: Enter the following command: `git remote add upstream <URL>`

```
C:\Users\Bolognal\Documents\GitHub> cd .\2016RobotCode 1
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git remote -v
origin https://github.com/live0060/2016RobotCode.git (fetch)
origin https://github.com/live0060/2016RobotCode.git (push)
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git remote add upstream https://github.com
/owatonnarobotics/2016RobotCode.git
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git remote -v 2
origin https://github.com/live0060/2016RobotCode.git (fetch)
origin https://github.com/live0060/2016RobotCode.git (push)
upstream https://github.com/owatonnarobotics/2016RobotCode.git (fetch)
upstream https://github.com/owatonnarobotics/2016RobotCode.git (push)
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]>
```

Note: The “git remote -v” commands show the remote repositories for your fork.

Step 1: In the project folder, enter the following command: `git fetch upstream`

This puts the latest version of the original code in the upstream repository.

Step 2: Switch to the branch “beta”.

Step 3: Enter the following command: `git merge upstream/beta`

This syncs your fork up with the latest version of the original project.

```
C:\Users\Bolognal\Documents\GitHub> cd .\2016RobotCode
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git fetch upstream
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git merge upstream/beta
Already up-to-date.
```

Profit!!!

Step 5: Committing your changes.

Open the Git Shell and navigate to the project folder.
(Make sure you're on branch "beta".)

Pro tip: Check to see what changes have not been added to the commit yet. (RED)
Enter the following command: `git status`

Enter the following command to add a file to the commit: `git add <FILENAME>`

```
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git status
On branch beta
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta +0 ~1 -0]> git add test.txt
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta +0 ~1 -0]> git status
On branch beta
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   test.txt
```

Notice that "git status" shows "test.txt" under "Changes to be committed:" in GREEN after it got added.

Once you've added all the changes you're going to commit, enter the following command: `git commit -m "<MESSAGE>"`

Always give the commit a short message telling everyone what you changed.

```
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta +0 ~1 -0]> git commit -m "Added a note."
[beta e7bc882] Added a note.
1 file changed, 3 insertions(+), 1 deletion(-)
```














Profit!!!

Step 6: Merging your fork with the original project.

After you've finished making changes to the project and have committed them to your local repository, you have to push the branch to your remote repository. Using the Git Shell, enter the following command in your project folder: `git push origin beta`

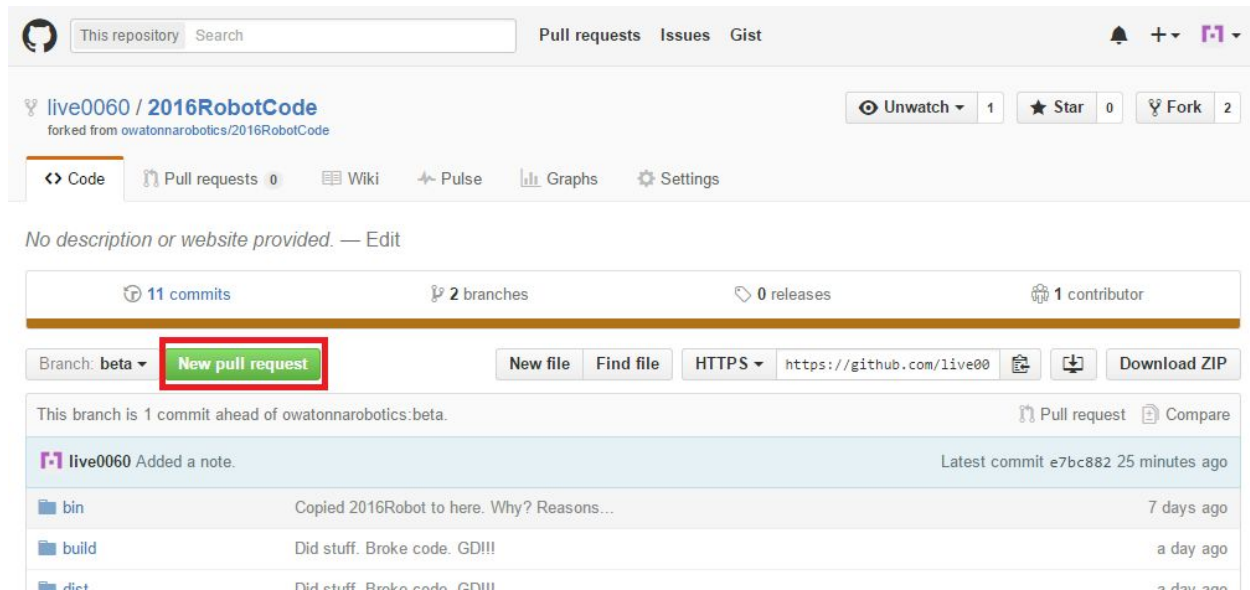
```
C:\Users\Bolognal\Documents\GitHub> cd .\2016RobotCode
C:\Users\Bolognal\Documents\GitHub\2016RobotCode [beta]> git push origin beta
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 325 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
To https://github.com/live0060/2016RobotCode.git
b767ccc..e7bc882 beta -> beta
```

Your changes will now appear in your fork repository on Github! Pretty neat!

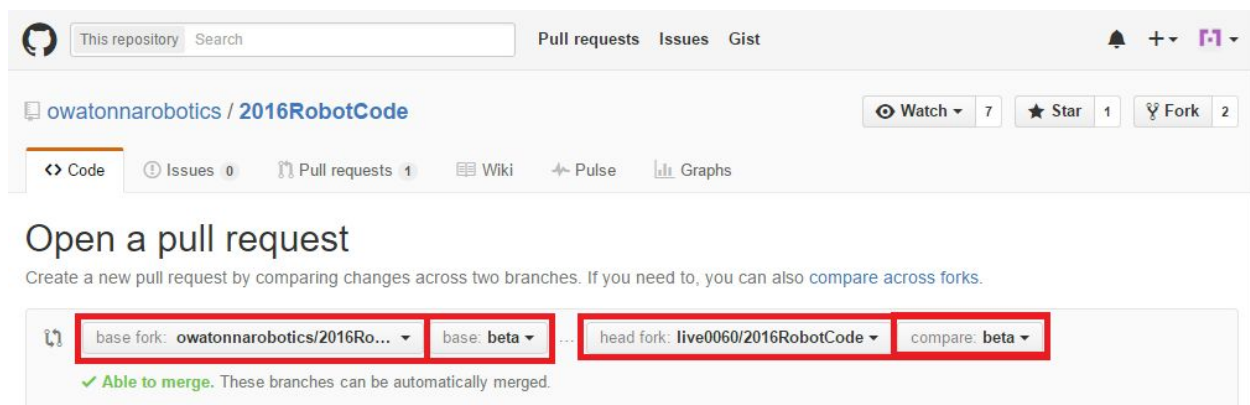
This branch is 1 commit ahead of owatonna:beta.			Pull request	Compare
 live0060	Added a note.	Latest commit e7bc882 22 minutes ago		
 bin	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 build	Did stuff. Broke code. GD!!!	a day ago		
 dist	Did stuff. Broke code. GD!!!	a day ago		
 src/org/usfirst/frc/team4624...	Did stuff. Broke code. GD!!!	a day ago		
 .classpath	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 .gitattributes	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 .gitignore	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 .project	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 build.properties	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 build.xml	Copied 2016Robot to here. Why? Reasons...	7 days ago		
 sysProps.xml	Did stuff. Broke code. GD!!!	a day ago		
 test.txt	Added a note.	22 minutes ago		

Note: You can make changes, commit, and push to the remote repository as many times as you like. In fact, you should do this often if you are making lots of changes before merging. This way if your hard drive happens to fail, at least some of your changes will be saved on Github's servers.

Next, we need to create a new pull request. Navigate to your fork repository on Github.



On the “beta” branch, click “New Pull Request”.



Make sure your pull request is merging the beta branch of your fork repository (head fork) with the beta branch of the original project repository (base fork).

You should comment on your merge and can also leave a note for the reviewer.

Code Issues 0 Pull requests 1 Wiki Pulse Graphs

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: owatonnarobotics/2016Ro... base: beta ... head fork: live0060/2016RobotCode compare: beta

✓ Able to merge. These branches can be automatically merged.

Added a note to the test file.

Write Preview Styling with Markdown is supported

I was messing around in the test file again... I wanted to test my instructions for forking the project and creating a pull request.

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Create pull request

Click “Create pull request”. A summary of your changes will be sent to the project owner for review. Once they’ve approved your changes, you’ll see them in the original project repository.

Profit!!!