Installing *PyCharm Professional* and *Git*, and creating a *Github* account

Goal

In this class we will use the ***Python*** programming language to introduce you to software development. We will also use tools like ***PyCharm*** and ***Git*** and web sites like ***Github*** to help make it easier to work with Python. Before we can start this course you need to install these tools on your computer.

Work through this document, page by page, following the instructions for:

- Installing PyCharm Professional
- Installing Git
- Creating a Github account

Part 1: Installing PyCharm Professional

PyCharm Professional is an ***IDE*** (**Integrated Development Environment)**. We will use it to write and run our programs. JetBrains is the company that makes PyCharm Professional. You will do the following steps, ***per instructions on the following pages***.

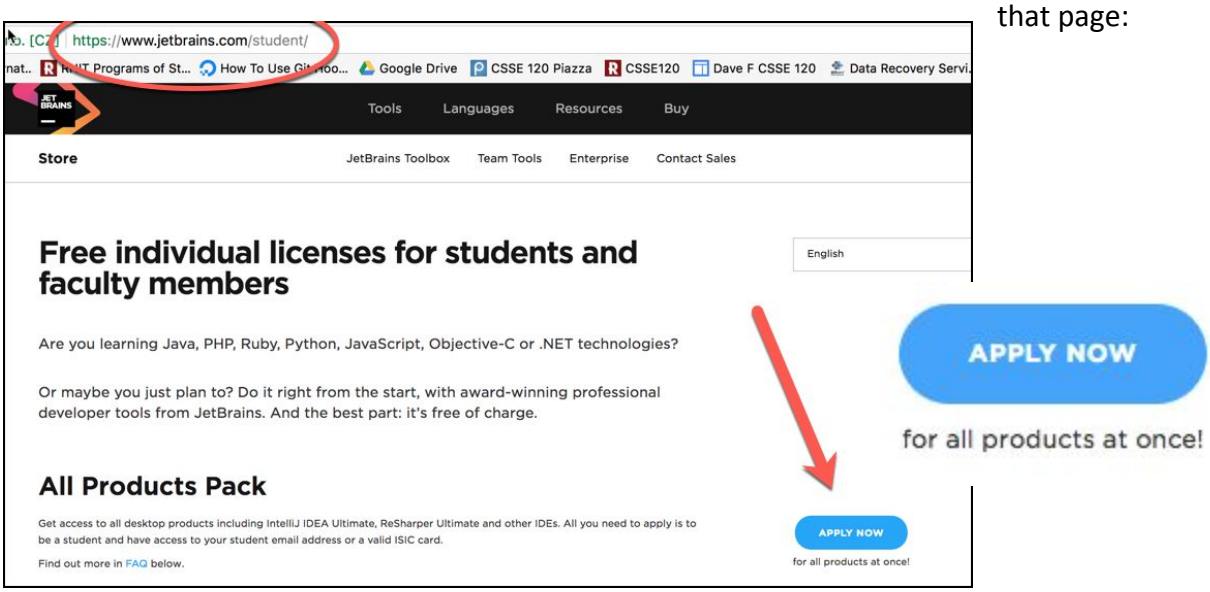
1. Create a JetBrains account and apply for a free educational license
2. Activate your educational license
3. Download and install PyCharm Professional

Warning before you start

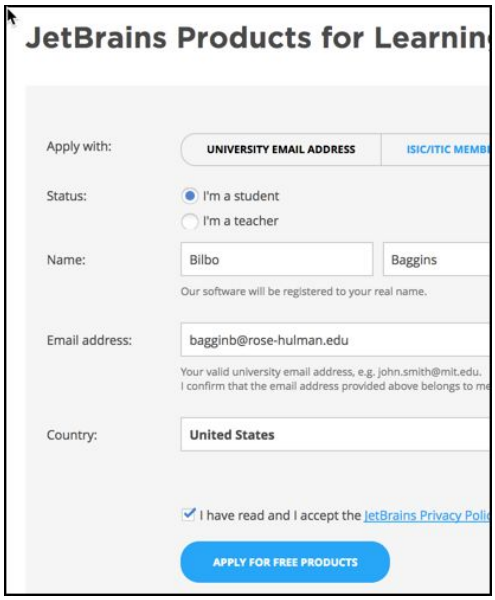
Steps #1 and #2 will each require an email confirmation. **For all email confirmations use your @rose-hulman.edu email** (even if you have other email accounts). When you complete a step in which JetBrains sends you an email, it should arrive within 1 minute. (Check your spam folders if it does not.). To do a confirmation, just click the link that you will see in the email.

Step #1 (of installing PyCharm Professional): Create a JetBrains account and apply for a free Educational License

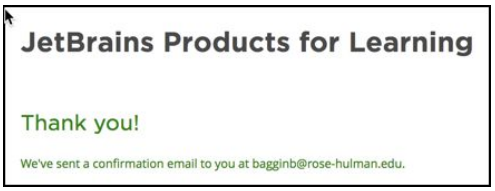
Visit https://www.jetbrains.com/student/ and click on the ***Apply Now*** button on that page:



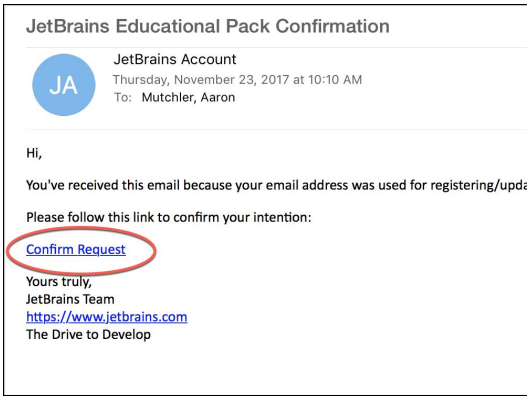
Fill out the form that appears ***using your @rose-hulman.edu email.***



After pressing the ***Apply For Free Products*** button, you should see a page that indicates that JetBrains has sent a confirmation email to you:

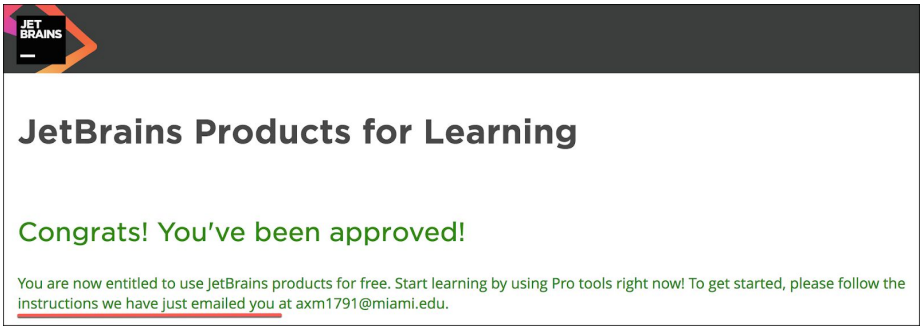


Check your email for a message from JetBrains (confirmation #1). Click on the ***Confirm Request*** link in the email.

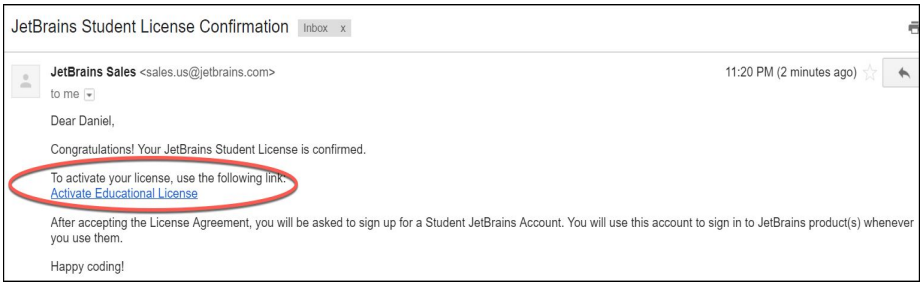


Step #2 (of installing PyCharm Professional): Activate your educational license

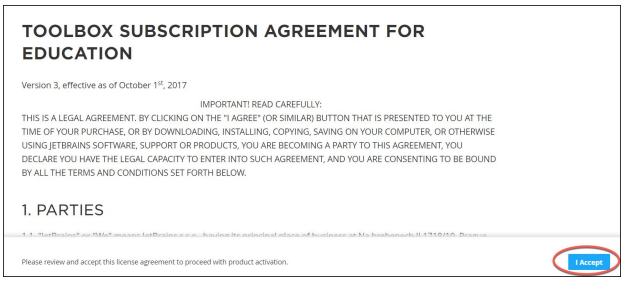
Clicking on the ***Confirm Request*** link in the ***first*** email that JetBrains sent you brings you to a page (shown to the right) that says that you have been approved (yay!).



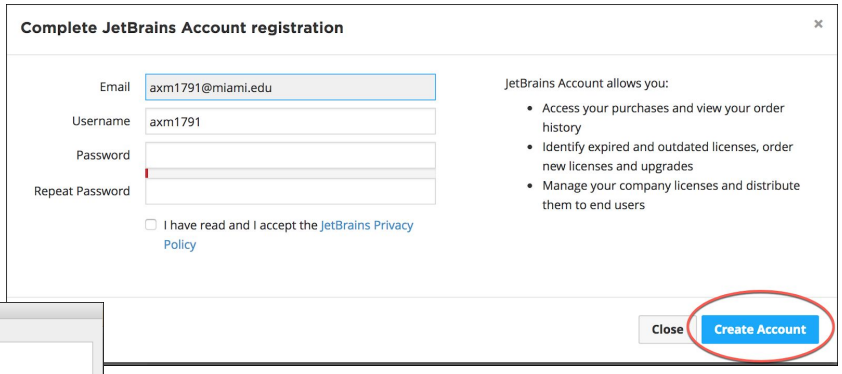
The above page asks you to check your email (again) for a ***second*** email confirmation, that will look like this the page shown to the right.

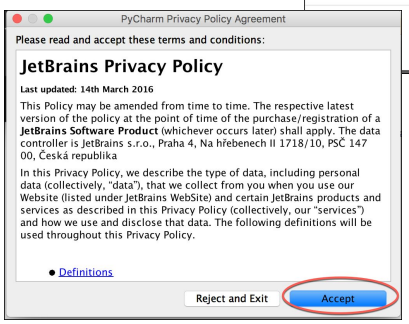


Click on the ***Activate Educational License*** link in that second email. It should bring you to a page that asks you to accept the license (as shown to the right). Click on the ***I Accept*** button.

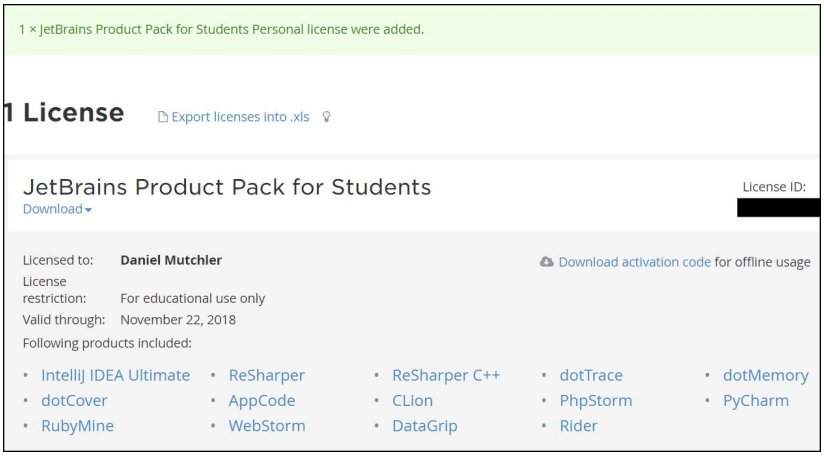


Now, you should be on a page at which you ***Complete JetBrains Account Registration*** by choosing a password and accepting the JetBrains Privacy Policy.





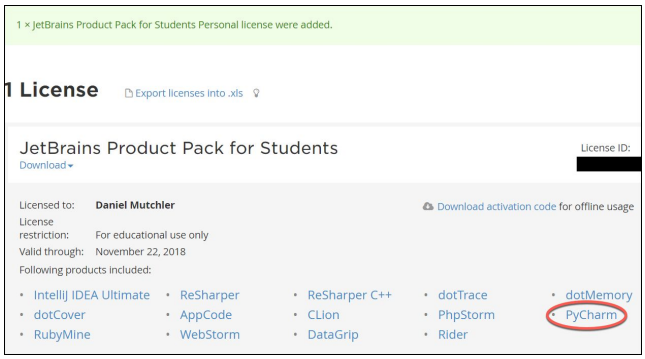
After you press the ***Create Account*** button on the ***Complete JetBrains Account Registration*** page, you will have a JetBrains account!



You are finished with this step only when you see a license, like the one shown to the right. If the above process did ***not*** get you to the above page, you aren't done yet. :) In that case, visit https://account.jetbrains.com/licenses and proceed from there.

(Instructions continue on the next page.)

Step #3 (of installing PyCharm Professional): Download and install PyCharm Professional



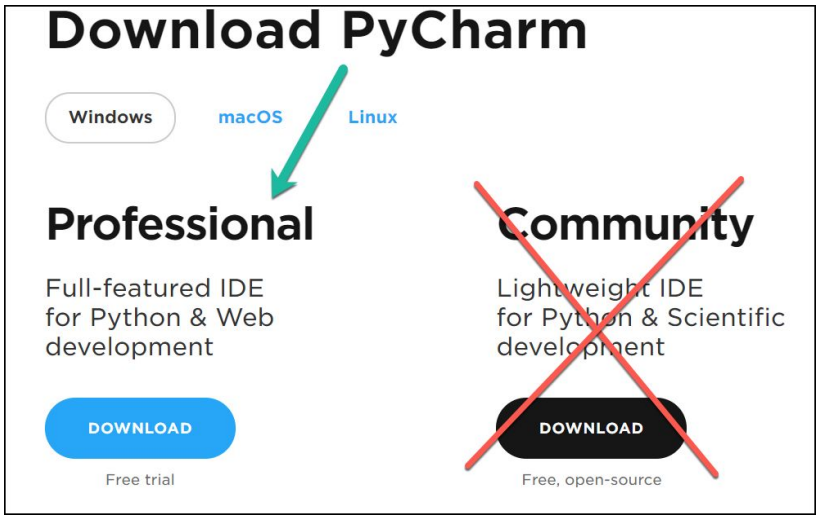
You now have an account and a free Educational License. Next, you need to download PyCharm Professional to your computer. To do so, from the screen at which you ended the previous step, click on the PyCharm link.

On the next page, click on the ***Download Now*** button to get to the Download page. Or, just use this direct link:

https://www.jetbrains.com/pycharm/download/

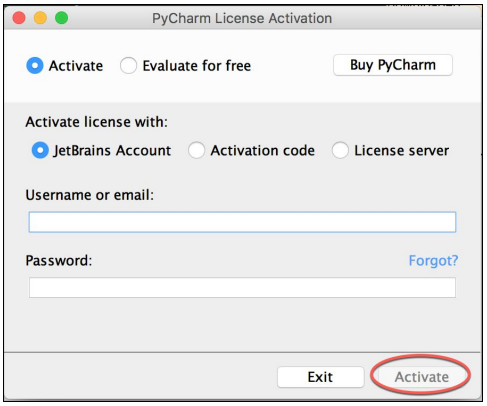
Once at the Download page, click the ***Download*** button that is below the **Professional** version of PyCharm to download the PyCharm installer.

After downloading the Professional version, **double click on the downloaded file to run the installer**.



It may ask you to enter your username/email and password (as shown to the right) for the ***PyCharm License Activation***.

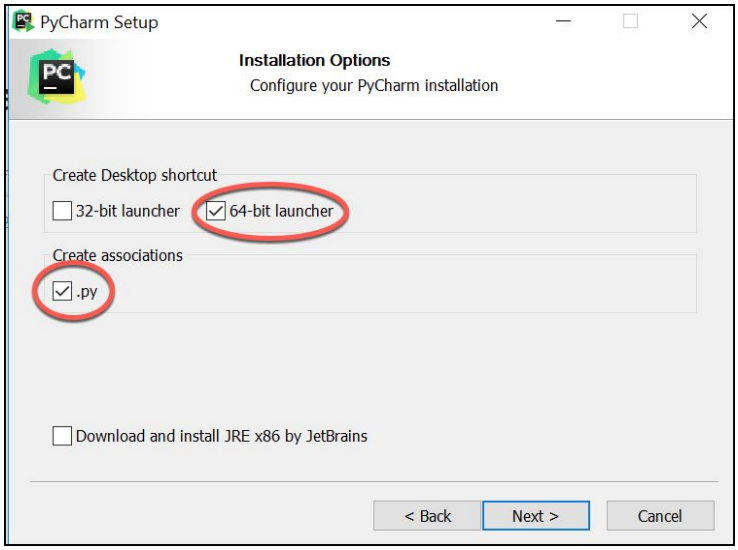
Accept all defaults during your installation, ***except***:



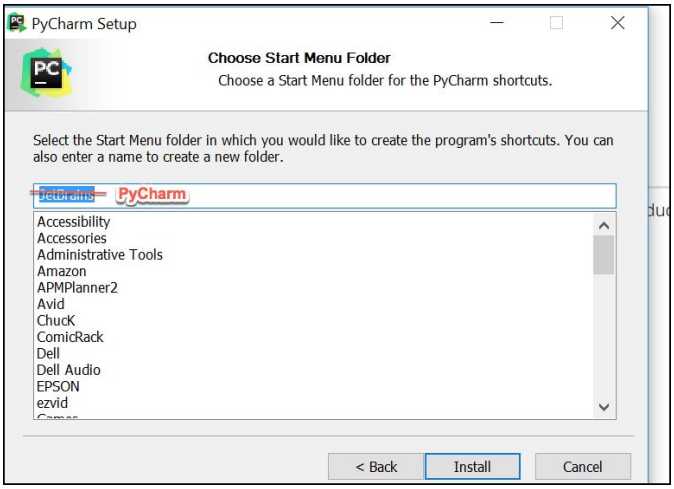
(Continues on the next page)

Accept all defaults during your installation, ***except***:

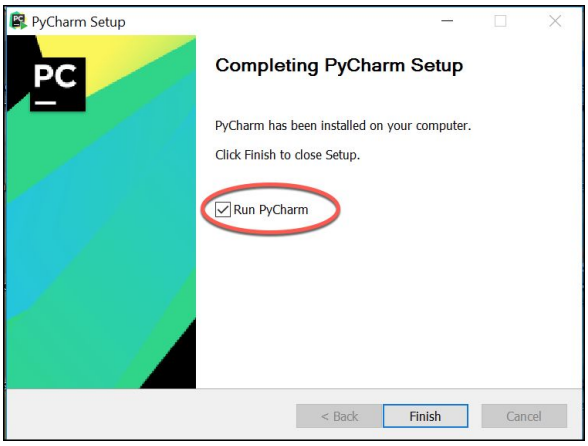
At the ***Installation Options*** page (shown to the right), check the boxes for ***64-bit launcher*** and ***.py*** association.



At the ***Choose Start Menu Folder*** page (shown to the right), change ***JetBrains*** to ***PyCharm***.



At the final page of the PyCharm installation, make sure that the box that says ***Run PyCharm*** is **UN**-checked and then press ***Finish***. (Note: the picture to the right shows the box checked, but you want it UN-checked. If you mistakenly left it checked and PyCharm runs, simply close PyCharm for now.)



Part 2: Installing Git

Professional software engineers use a workflow (i.e., a way to do their work) that includes using a **Version Code System** (**VCS**). We will use one called ***Git***.

Git allows software engineering teams to collaborate; it provides ways for each software engineer to work on parts of the software without fear of harming other team members' work, and it helps in the process of integrating a software engineer's code into the production version of the code when the time is ripe.

That said, we will use **Git** mostly to provide simple ways to:

1. **Get starting code** for each project ***from*** the "cloud" (where we put that starting code) ***to*** your computer (where you will add to that code).
2. **Get YOUR code** (as you are working on it) ***from*** your computer ***to*** the "cloud".

Here the "cloud" simply means a computer that is always running and allows both you and us to get and store information on it. By storing your code "in the cloud" (as well as on your computer):

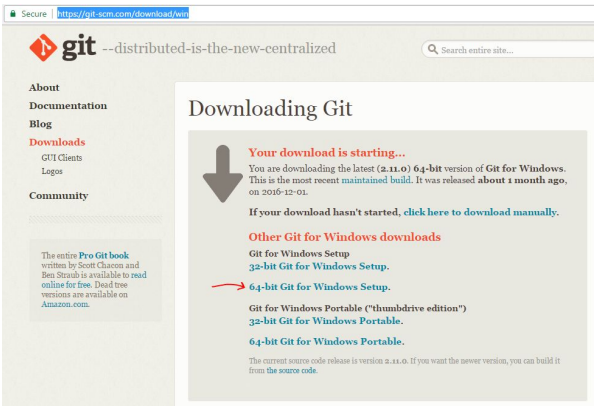
- Your code is automatically backed up, and
- You can collaborate with others on shared code (as you will do later in the course).

(Instructions continue on the next page.)

Visit

https://git-scm.com/download/win

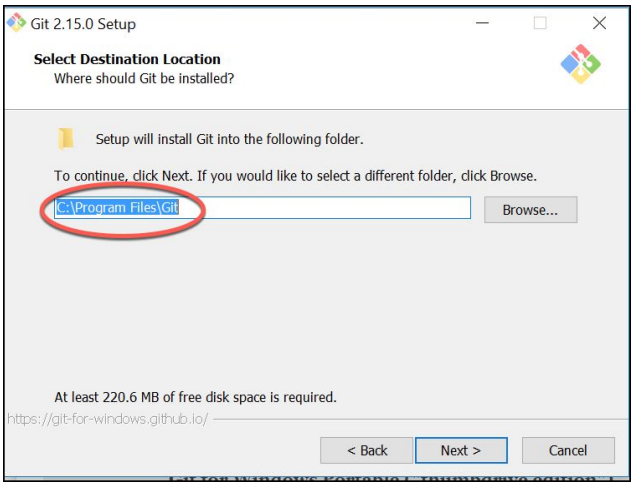
to download a Windows installer for Git:



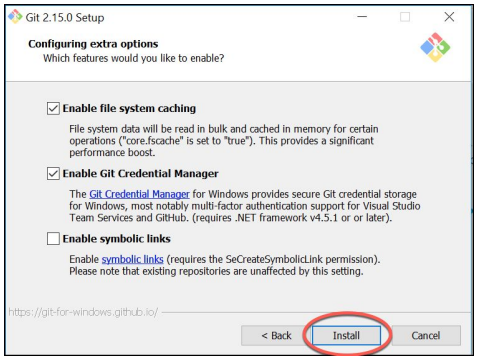
That page should automatically start the download, but if for some reason it doesn't you can manually start the download via the **64-bit Git for Windows Setup** link on the page.

Once downloaded, ***double-click on the downloaded file*** to run it. Doing so will start the Windows Setup for 64-bit Git.

Accept all defaults during the installation (just keep pressing *Next*, *Next*, *Next* …)
Especially do *NOT* change the folder where Git is to be installed.

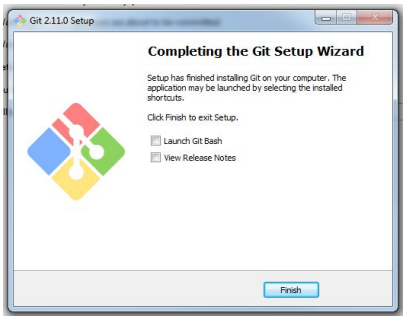


Eventually you will get to a screen that has an ***Install*** button (as in the picture to the right). Press ***Install*** to begin the actual installation (which will take a minute or so).



The installation is done when it reaches the page shown to the right.

Uncheck the "***View Release Notes***" checkbox on the final step since you don't need to read those, and click ***Finish.***



Part 3: Creating a Github account

In order to use Git we've going to use a website called ***Github*** that allows you to share code with other developers and collaborate on Git projects. Visit:

https://github.com/

and create an account. **We recommend you use your Rose-Hulman username and Rose-Hulman email address for your Github account**, but that is not a requirement. If your Rose-Hulman username has been claimed already by someone else just edit it as needed. If you already happen to have a Github account you can, of course, skip this step.