Welcome to the Code First Girls community!
Here is a guide on all you need to get ready for your **'Intro to Python Programming'** Course.

Your course journey →

- ❏ Session 1: Python basics - Data types and Variables
- ❏ Session 2: Problem solving with Turtle
- ❏ Session 3: Decision making in your program
- ❏ Session 4: Lists and Dictionaries
- ❏ Session 5: Third party libraries and APIs
- ❏ Session 6: Building & deploying your app (Part 1)
- ❏ Session 7: Building & deploying your app (Part 2)
- ❏ Session 8: Project Presentations

By the end of the course, you will be able to →

- ❏ successfully use python for problem solving and small scale programs
- ❏ build and deploy your application

The Essentials →

What do I need to bring?	**What do I need to sign up to?**
Personal laptop (and charger) Notebook & pen Proof of ID	Accept the invite for Slack sent to your email address and check that you have access (Material will be shared every week and this is where you can interact with your instructors and other learners)
What time and where do I show up?	**What do I need to install?**
All details will be in the registration email you received from Arlo Each venue has its own protocol; please ensure you have your ID in case you are asked to present it. If you have any questions, please email programmes@codefirstgirls.org.uk	Please ensure you have downloaded the following software onto the laptop you will be using for the course: 1. Python 3 2. PyCharm Community Edition (Scroll down for instructions on how to set up)

Setup

This part of the guide will explain how to install the software required for the course. It will show

you how to install:

- Python 3
- PyCharm Community Edition

The guide will also show you how to create a new PyCharm project and test that everything is installed OK.

Try to complete the setup instructions before the first session. If you have any trouble, the course instructors will be able to help you at the start of the session.

Python 3

Python is frequently updated. Some older versions of Python, such as version 2.7, are no longer supported. Even if you already have a version of Python installed you should follow these instructions to install an up to date version of Python.

Step 1: In a web browser go to ★ python.org/downloads

Step 2: Click on the button that says **Download Python 3** (the number on the button might say something like 3.7.4 instead).

Step 3: The installer for Python should now download. Once the download is complete, open the installer.

Step 4: Tick the **Add Python 3.7 to PATH** box when it is shown. All other default options should be fine.

Step 5: Click **Install Now** and wait for the installation to complete.

PyCharm

When writing Python programs there are a lot of programs you can use. For this course you will be writing and running your Python programs with PyCharm.

PyCharm is an editor that is designed specifically for Python. It comes with lots of built-in tools that help you work with Python (for example it can highlight typos in your code).

Step 1: To install PyCharm, go to ★ jetbrains.com/pycharm/download

Step 2: Click the **Download** button under the Community Edition option

Step 3: Once the installer has downloaded, run it and follow the instructions to install PyCharm.

Checking the Installations
So that you're prepared for the first session, we're going to create a new PyCharm project and check that Python has installed correctly.

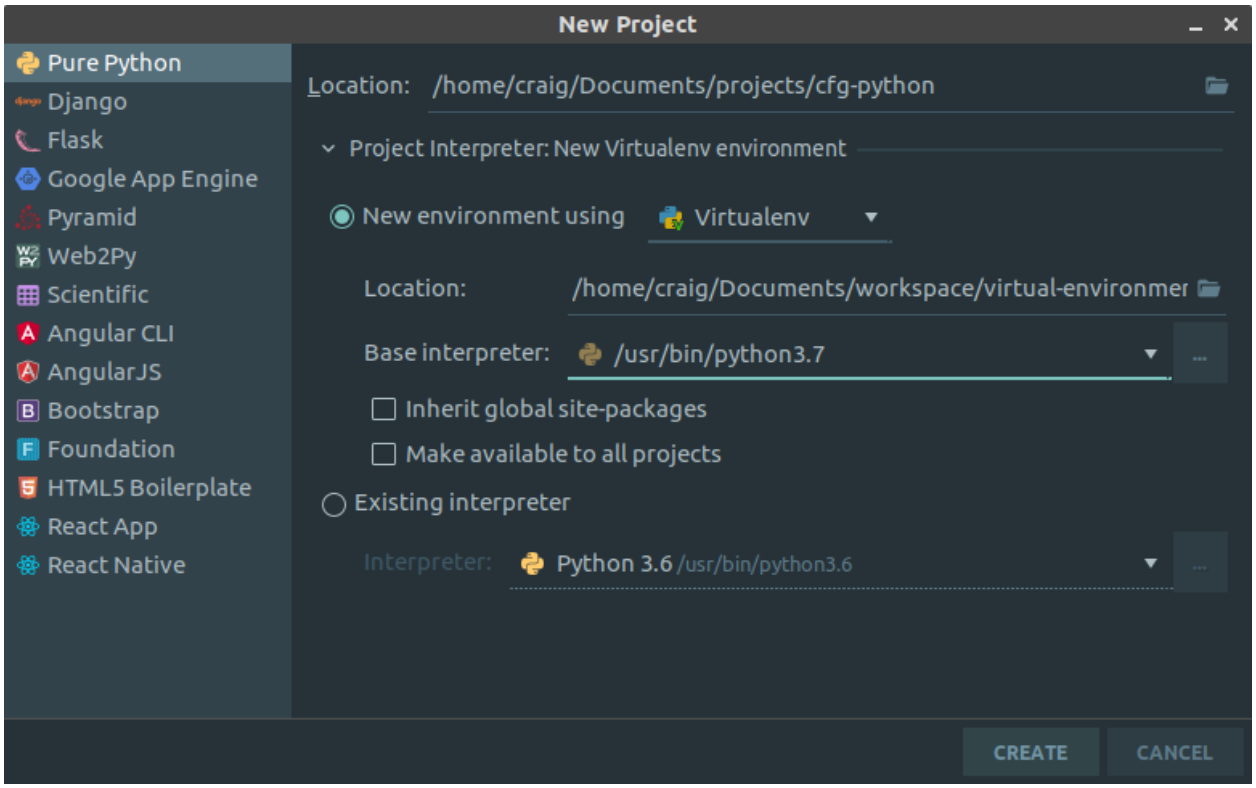
If you have any problems, double check that you've followed the installation instructions correctly. If there are still issues with the installation make sure you tell the instructors at the very start of the first session and they should be able to help you.

Step 1: Open PyCharm. You should see a window like the one below:

Step 2: Click on the **Create New Project** button.

Step 3: On the next screen in the **Location:** field name your project **cfg-python**.

Step 4: Click on the **Project Interpreter: New Virtual Environment** dropdown to see more option for your project. In the **Base interpreter** field click the drop-down and select **Python 3.7**. The Python 3.7 option might be written like "C:/.../Python37-32/python.exe" depending on your operating system.



Step 5: Click **Create** to start your project. PyCharm will now create the project. You may need to wait a while depending on the speed of your computer. There might be a progress bar at the bottom-right of the PyCharm window, which you can follow the progress.

Step 6: Once the new project is ready, it's time to check that Python is working correctly. We'll use a tool called the terminal.

Step 7: On the menu bar at the top of the screen click on **View > Tool Windows > Terminal**. You should see the terminal panel pop-up at the bottom of the window.

Step 8: In the window type `python --version` and press enter to check which version of Python you are using. The output should look similar to this:

```
Python 3.7.4
```

If you the output says you are using Python 2.7 or earlier you will need to check two things. First check that you downloaded and installed Python in the step earlier. If you definitely did this you may have selected the wrong option when creating your project. Go to **File > New Project** and follow the Creating a PyCharm Project instructions above

You should now be ready for the first session. Remember, if you have any trouble with the setup instructions let your instructors know at the very start of the first session.

I hope that you enjoy the course!