CS 105
Getting Started with Python and PyCharm

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Lab Computers

- The lab computers are so loaded with mess-up proofing, and security, that they take 10+ minutes to login!

- They all already have Python 3.4 installed.

- The lab computers also have Python 2.7 installed. However, make sure you use Python 3.4.

- The lab computers *should* have PyCharm installed. If they do not, install PyCharm on a USB drive and configure it to use Python 3.4 on the internal drive.
Install Python 3.4 (If the computer you are using does not have Python 3.4 installed)

https://www.python.org/

PyCharm IDE
https://www.jetbrains.com/pycharm/
Select: Windows, Mac OSX or Linux

Okay to “Cancel” Network Access
Running PyCharm for the First Time

In class, I will use the IntelliJ theme, but pick whichever you like.

Create New Project
Enter *Project Directory* and *Interpreter*

1) Choose the directory where you want to save your project. If you are using a lab computer, this should be a directory on your USB drive.
2) Enter a project name. I used “Lab1_MyNameInASCIIArt”. Avoid using spaces in project names.

Must select Python 3.2 or 3.4! If Python3.x is not an option, then you must install it.

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**The Interactive Shell** (1 of 2)

Chapter 2 of the textbook is titled: “The Interactive Shell”.

PyCharm's name for “Interactive Shell” is “Python Console”. Throughout CS-105, these terms are used interchangeably.

When you first create a project in PyCharm, the Python Console will not be visible.

Display the Python Console, by selecting it from the **Tools** menu.
Compare to figure 2-1 of the textbook.

Python Console (a.k.a., Interactive Shell)

Your First Python File: **Hello.py** (1 of 2)

To create a new *Python File* in PyCharm:
1) Right-click on the project folder (Lab1_MyNameInASCIIArt).
2) Select “New”
3) Select “Python File”
4) In the “New Python file” dialog, enter filename. Click “OK”.

All Python filenames must end with `.py`!
The project folder `Lab1_MyNameInASCIIArt` contains one python file: `Hello.py`.

The first line of every CS-105 python file must be `__author__ =` followed by your full name in single or double quotes.

This is where you type your program.

After typing your Python program, right-click on its filename and select: Run.

Always turn in your homework by attaching a `.py` file into Blackboard Learn.
Syntax Errors and Line Numbers

Right-click in the left margin to show line numbers.

Hyperlink

Note: Python *mistakenly* reports the error on line 5.

All Better

Click to run Python File selected in menu.

Run Panel
Playing Peek-a-Boo with .py

Control Panel → Appearance and Personalization → Folder Options →

- Hide extensions of known file types