

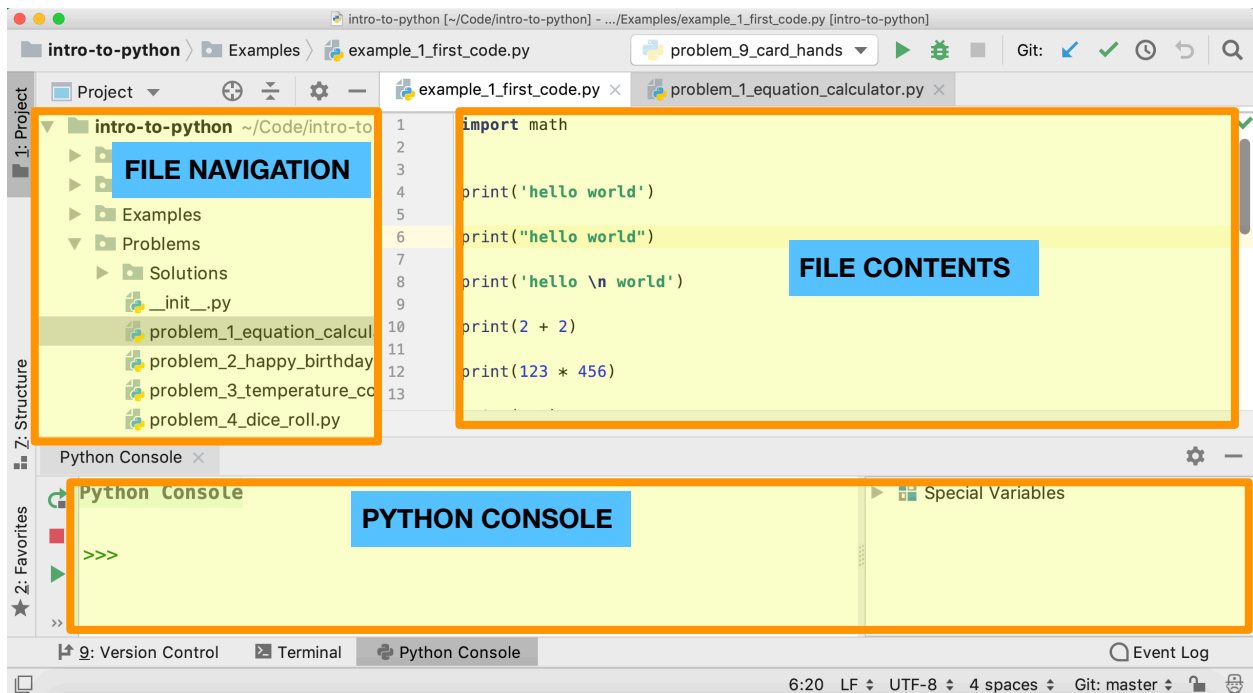
# **Programming with Python**

## **References**

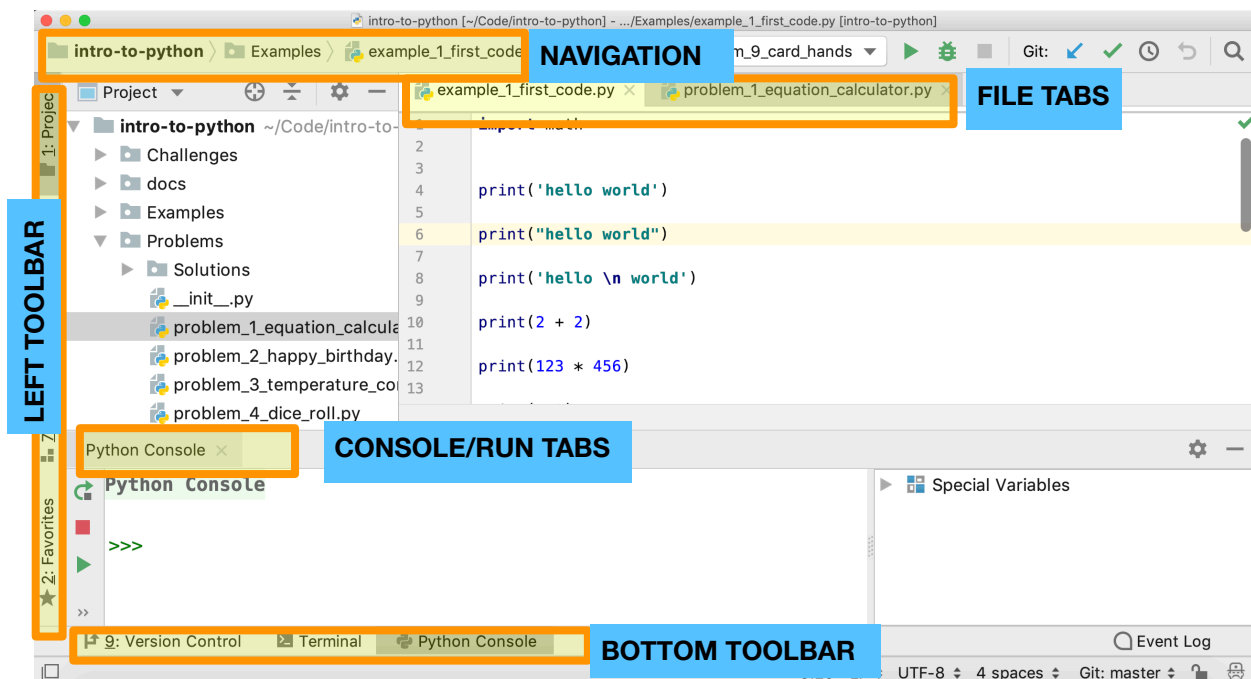
Arianne Dee

# PyCharm Layout

## Sections



## Toolbars



# Keyboard Shortcuts

## References

<https://www.jetbrains.com/help/pycharm/mastering-keyboard-shortcuts.html>

Select operating system/key-map at top

[https://resources.jetbrains.com/storage/products/pycharm/docs/PyCharm\\_ReferenceCard.pdf](https://resources.jetbrains.com/storage/products/pycharm/docs/PyCharm_ReferenceCard.pdf)

Some differences between PC/Mac/PyCharm versions

## Edit/browse shortcuts

Go to Settings > Keymap

## Common shortcuts

### A. PyCharm

<b>Ctrl+Shift+A</b>	Search for keyboard shortcut
<b>Ctrl+,</b>	Open settings
<b>Alt+Enter</b>	Show error dialogue

### B. Most programs

<b>Ctrl+C</b>	Copy	<b>Ctrl+V</b>	Paste
<b>Ctrl+Z</b>	Undo	<b>Ctrl+Shift+Z</b>	Redo
<b>Ctrl+F</b>	Find in file	<b>Ctrl+R</b>	Replace in file

### C. Navigation

<b>Shift+Arrows</b>	Select multiple characters/lines	<b>Tab+Up</b>	Widen selection
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### D. New lines

<b>Ctrl+Back</b>	Delete entire line	<b>Ctrl+Enter</b>	Start new line above
<b>Shift+Enter</b>	Start new line below		

### E. Used in workshop

<b>Ctrl+/</b>	Comment / uncomment line		
<b>Ctrl+D</b>	Duplicate selection		
<b>Ctrl+Shift+↑</b>	Move line up	<b>Ctrl+Shift+↓</b>	Move line down
<b>Ctrl+Alt+L</b>	Reformat file		
<b>Ctrl+B</b>	Go to definition		

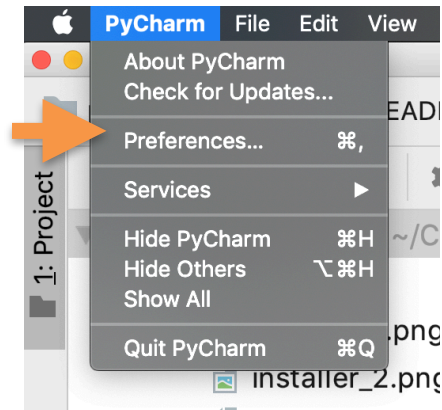
### F. Advanced

<b>Shift+F6</b>	Rename	<b>F6</b>	Move
<b>Ctrl+Shift+F</b>	Find in project	<b>Ctrl+Shift+R</b>	Replace in project
<b>Ctrl+Shift+] </b>	Go to next tab	<b>Ctrl+Shift+[</b>	Go to previous tab
<b>Ctrl+Shift+U</b>	Toggle case		

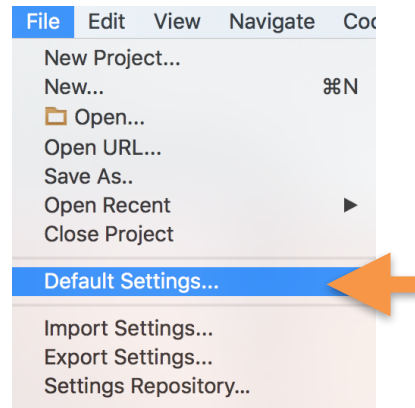
# Setting your Python version

## 1. Open settings/preferences

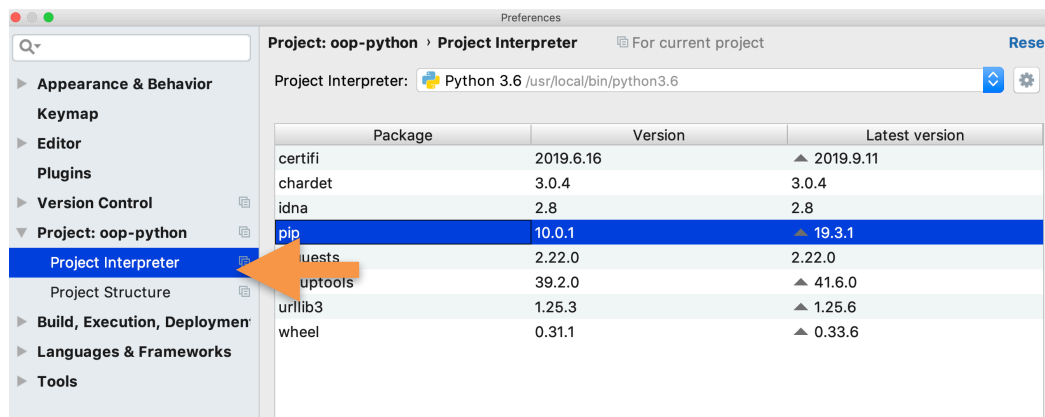
Mac



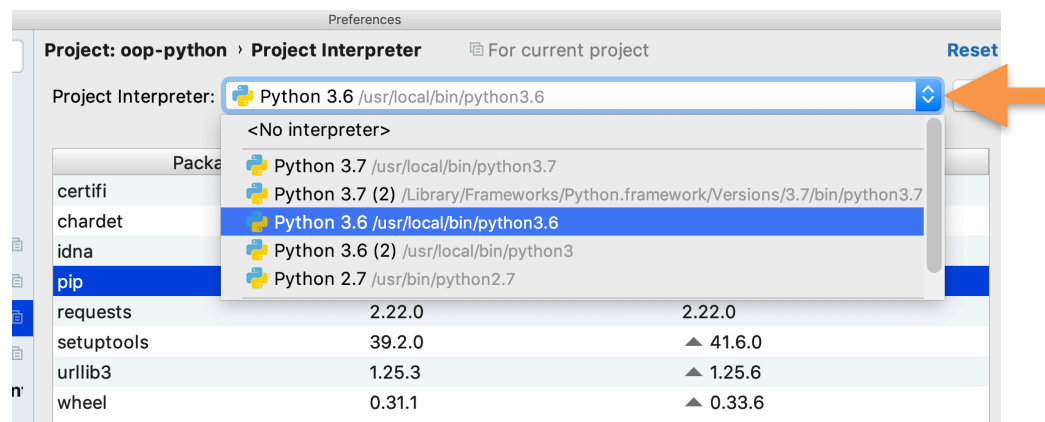
PC



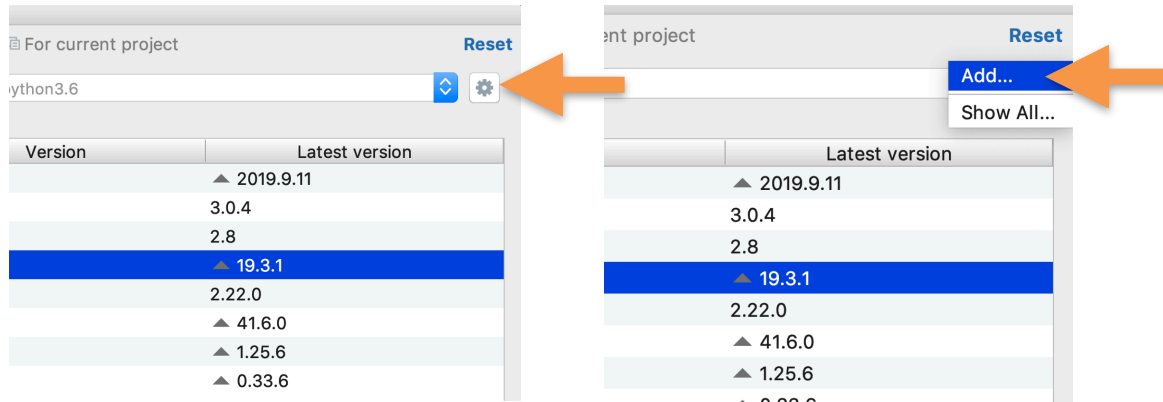
## 2. Navigate to Project Interpreter



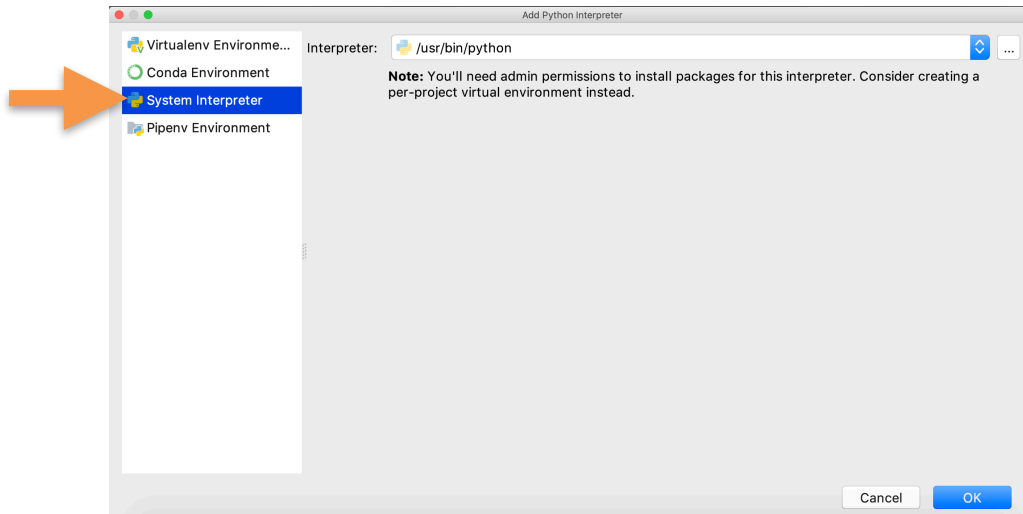
## 3a. Select existing interpreter



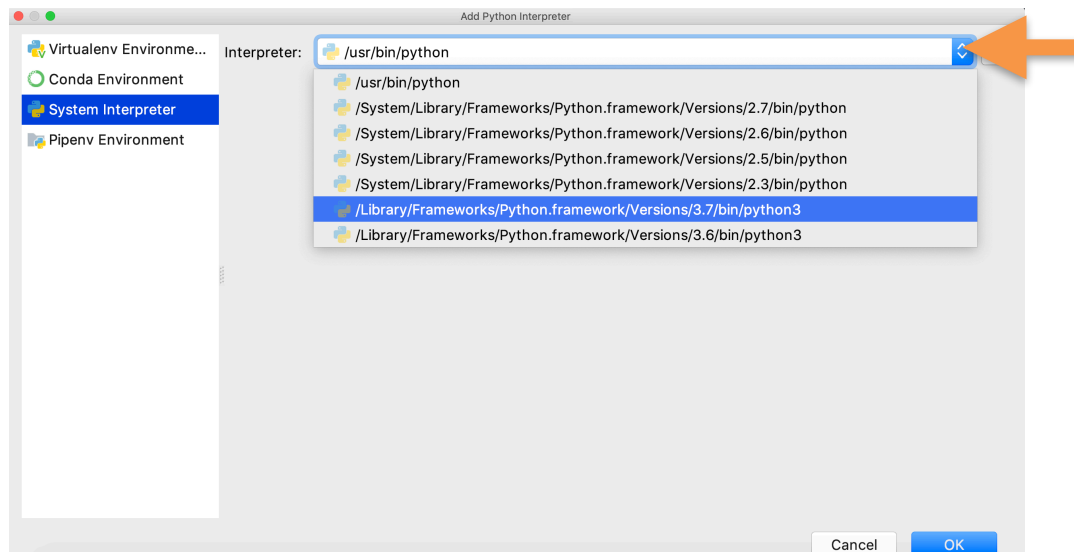
### 3b. Add new interpreter



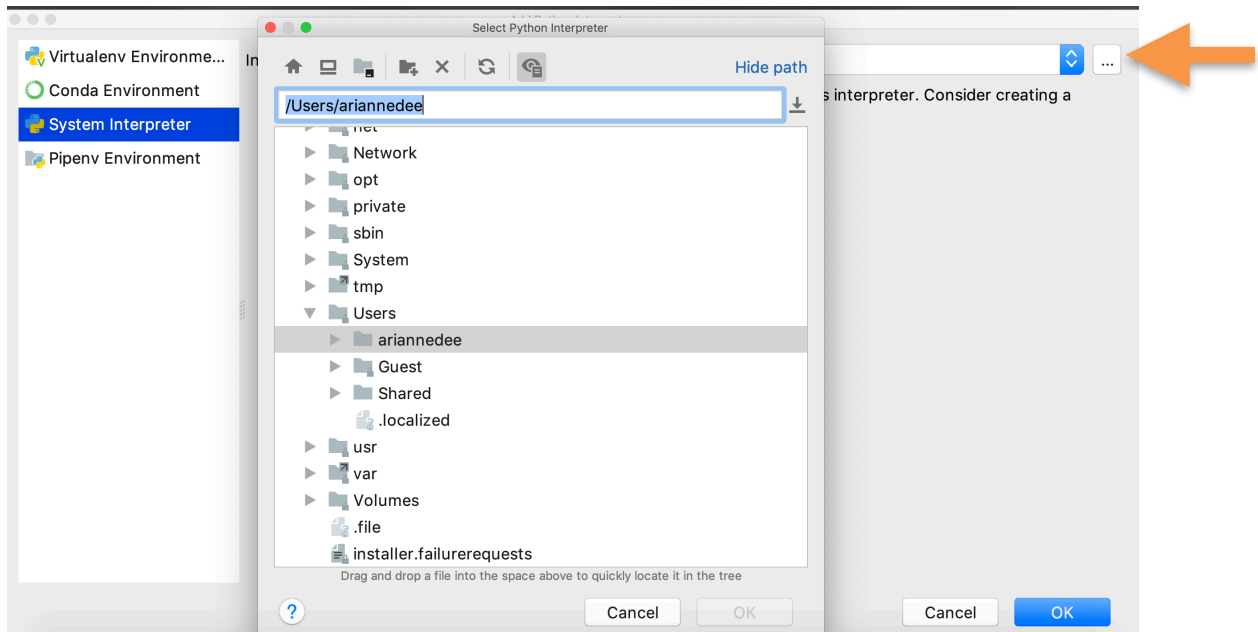
### 4. Add a system interpreter



### 5a. Select existing system interpreter



## 5b. Find system interpreter



If you're not sure where to find it

**Windows** (look for python.exe)

- C:\Python38
- C:\Program Files\Python38
- C:\Users\username\AppData\Local\Programs\Python\Python38-XX

**Mac** (look for python3.8 or python3)

- /usr/local/bin/
- /Library/Frameworks/Python.framework/Versions/3.8/bin/
- /usr/local/Cellar/python/3.8.X\_X/bin/
- /Users/username/anaconda/bin/
- /anaconda3/bin/

**Linux** (look for python3.8 or python3)

- /usr/bin/
- /usr/local/bin

# Python 2 vs Python 3

If you haven't been able to get Python 3 working, here are some of the differences that may affect you throughout the workshop.

## Getting user input

Python 3

```
name = input("What's your name?")
```

Python 2

```
name = raw_input("What's your name?")
```

## String formatting

Python 3

```
print(f"hello {name}")
```

Python 2

```
print("hello {}".format(name))
```

## Integer vs. float division

Python 3

```
1/2    =>  0.5
```

```
1//2   =>  0
```

Python 2

```
1/2    =>  0
```

```
1./2   =>  0.5
```