









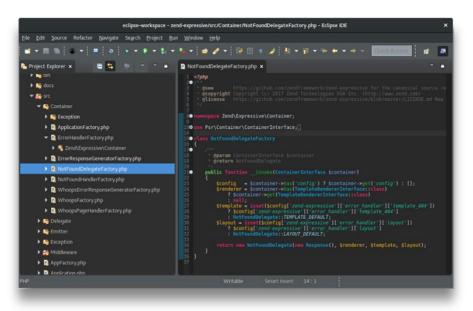
- Part 1: Basics
 Basics I
 variables, data structures, functions
 Basics II
 standard Python functions and libraries, strings, I/O
 Software Design
 writing safe, reusable software
 - Part 2: Libraries
 2D and 3D Images
 numpy, imageio, nibabel
 Data frames and visualization
 pandas, matplotlib
 Image processing
 scipy, skimage
 - Part 3: Applications
 some ideas...
 Statistics
 Segmentation
 Registration
 Machine Learning / AI
 fMRI

How Do People Normally Write Software?

Text editor + command line interface

How Do People Normally Write Software?

- Integrated Development Environment (IDE)
 - Software dedicated to writing code.
 - Lots of features, but can be a bit complex.



How Do People Normally Write Software?

- Jupyter Notebooks
 - Not a good way to develop software, but very good for educational purposes
 - o Consists of blocks of code, i.e., "cells", that can be run one at a time.



Instead of installing anything, we can use jupyter notebooks on Google Colab

