### Environment

Jupyter Notebooks, Linux commands, GPU Computing



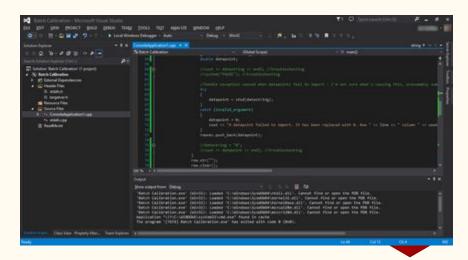
# What is a programming environment?

Hardware and software used by a programmer

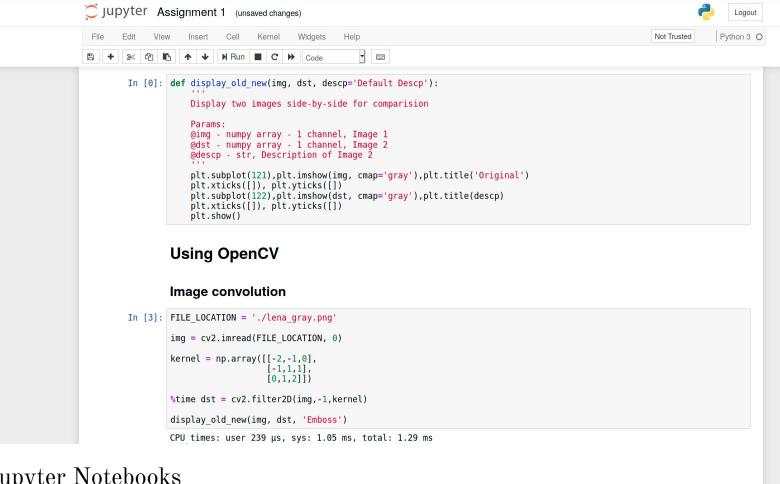
### Software Examples

- 1. TurboC++ (Outdated)
- 2. Visual Studio
- 3. RStudio
- 4. Jupyter Notebook
- 5. Sublime Text

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#### Jupyter Notebooks

### Python and R environment

- Scripting languages
- Interpreted vs. Compiled
- Can be broken down into parts and executed separately



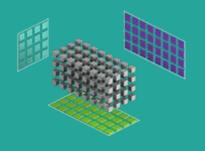
# Python Kernel

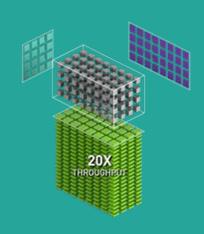


## Basic Linux Commands

- ls
- cd
- rm
- &&
- mkdir
- cat
- sudo
- mv, cp

#### **NVIDIA V100 FP32**





# GPU Computing



#### What is a GPU?

- graphics processing unit
- Supports matrix operations
- Speeds up parallel computation



