What makes an editor a (good) code editor or IDE?

- Syntax highlighting

- Auto-completion (with python support)

- Running code from editor

- Convenient necessities:

  - Bracket matching, tab-to-space conversion, …

- Real-time code checking (linter)

- Version control integration (with git)

- Other goodies to play with

Some good editors/IDEs to use

- Atom
  - Millions of users (not only useful python)
  - Customizable (thousands of addons)
  - Pretty
  - Easy to use
- Visual Studio Code
  - Also very broad user base
  - Support for multiple languages
  - Well-structured piece of software, only heard good things about it
- SublimeText
  - Similar to Atom, but somewhat steeper learning curve
  - Faster/less resource intensive when editing big files
  - Annoying pop-ups every 5th time you save a file asking you to pay for the full version
- PyCharm
  - works out of the box with all the really important features, since it's dedicated to python development

You can't really go wrong with any of the above and it boils down to preference, e.g. Atom, SublimeText and Visual Studio Code are VERY modifiable and can do pretty much anything that you want (or didn't know you want), but require of you that you install the important packages you need (easy, but still). PyCharm has everything important included.

Packages I use in Atom for development

- Make Atom prettier
  - Atom-clock (if you use the editor in fullscreen mode it's useful)
  - Color-picker (open a color palette to select colors)
  - Pigments (color background behind hex code into color it's coding for)
  - File-icons (makes file tree much more readible)
  - Fonts (contains lots of monospace fonts for coding to select)
  - Highlight-line (faintly highlights line of curse position)
  - Highlight-selected (selecting a word, highlights all other occurances of the word in the file)
  - Minimap (minimap instead of scroll bar)
- Theme: material-ui (follow google material design scheme)

Packages I use in Atom for development

- Python
    - Hydrogen (execute code like jupyter notebook in cells!)
    - Autocomplete-python (obvious)
    - Goto-definition (allows to jump to definition of a function/class)
    - Linter-pycodestyle (real time code checking)
    - Set-syntax (set syntax highlighting for file without fileending, e.g. before saving)
    - python-autopep8 (format your code according to PEP8 guidelines every time you save!)
    - python-isort (allows to sort imports of modules automatically in a logical way)

Packages I use in Atom for development

- Git:
    - Git-plus (execute all git commands from Command Palette, i.e. ctrl+shift+P in atom where you can call every functionality of every packages from)
    - Git-time-machine (shows a visual timeline representation of your git commits coded by size of the commit. Clicking it allows to show the difference to the current version)
    - Tree-view-git-status (show git status in the file tree view, e.g. current branch name, files which are uncommitted but changed, ...)
- Useful:
    - Compare-files (difference view between two files)

- General awesomeness:
    - Wakatime (keeps track of how long you work on each of your projects and makes plots)
    - Jumpy (add tags all over the screen to allow, by typing said tags the cursor jumps there, nice navigation tool when you don't want to use a mouse)
    - Vim-mode-plus (vim-like behavior and keybindings)