Sublime

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Introduction

Sublime is a friendly text editor known for its slick user interface, numerous features, and snappy performance that provides a combination of many amazing features from modern text editors (and more)!

Sublime is easy to use, and extremely fun to master (I mean, who doesn't want to use multiple cursors in vim mode while — you get the picture, do things with CS words that don't quite make sense right now). This guide will get you started with Sublime, with a few basics and essential tools for your workflow in CS61A. If there's something you want Sublime to do, it's likely possible! A quick Google search will probably show you a plugin you can install to extend Sublime's functionality.

Getting Sublime on your own computer

You can go to Sublime's website to download it.

Example: `greet.py`

Alright, by now, you should have Sublime installed. You have the option of either finding the Application or opening it up from the terminal. Recall from Lab 0 that you can open a terminal on the school computers by pressing `Ctrl-Alt-t`.

Let's first create and navigate to a directory called `example`, using the UNIX commands you learned in Lab 0:

```
mkdir ~/example
cd ~/example
```

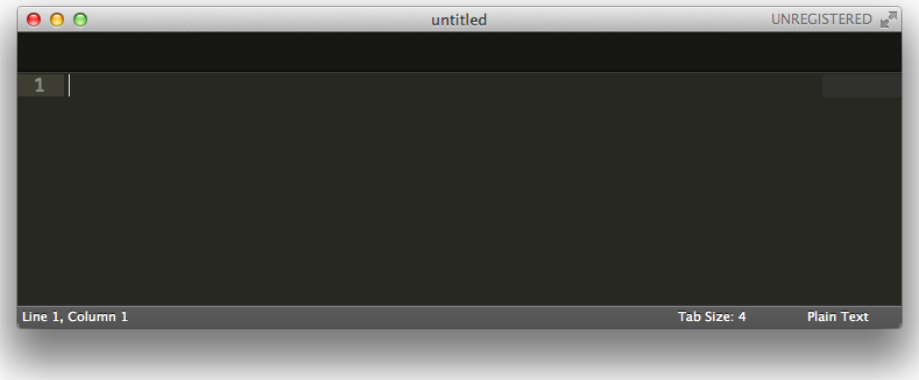
Opening files

Now let's open up Sublime!

> For Ubuntu or Mac users, you'll most likely find Sublime in your `Applications`.

> For Windows users, you'll most likely find Sublime in your `Program Files`.

Sublime will open up to a blank file. We can start writing our program!

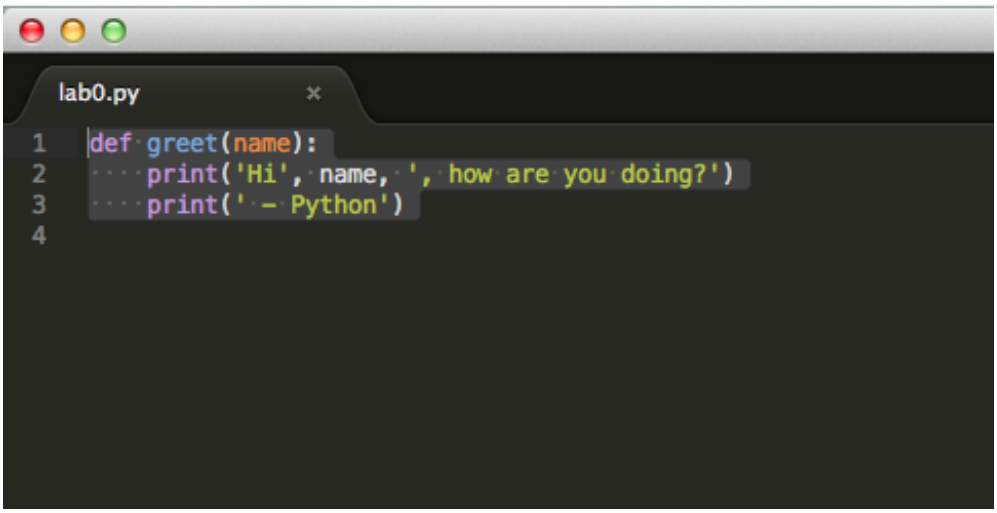


Editing files

Now we have Sublime open, we can begin writing our first Python file. Don't worry, we don't expect you to know any Python yet! All you have to do is type in the following:

```
def greet(name):
    print('Hi', name, ', how are you doing?')
    print(' - Python')
```

Once you've finished typing, Sublime should look something like this:



To save, you can just type `Ctrl + s`. If you haven't already, save this file as `greet.py`.

Running Python

In this class, you will be switching between your text editor and Python a lot — writing code and testing code.

Back in our terminal, we're currently in our `example` directory. Let's play around with our code. In the terminal, start by typing

```
python3 -i greet.py
```

This command does the following:

1. `python3` is the command that starts Python
2. The `-i` flag tells Python to start in interactive mode, which allows you to type in Python commands from your terminal
3. `greet.py` is the name of the Python file we want to load

Notice that the Python interpreter says `>>>`. This means Python is ready to take a command.

Recall that we defined a function called `greet`. Let's see what it does! Type in the following:

```
greet('Michelle')
```

Python will then print out

```
Hi Michelle, how are you doing?
 - Python
```

You probably want Python to greet you and not me. So if your name is John, you should also type:

```
greet('John')
```

and Python will print

```
Hi John, how are you doing?
 - Python
```

Our code works! Let's close Python by typing in

```
exit()
```

> There are a couple of ways to exit Python. You can type in `exit()` or `quit()`. On MacOS and Linux, you can also type in `Ctrl-d` (this doesn't work on Windows).

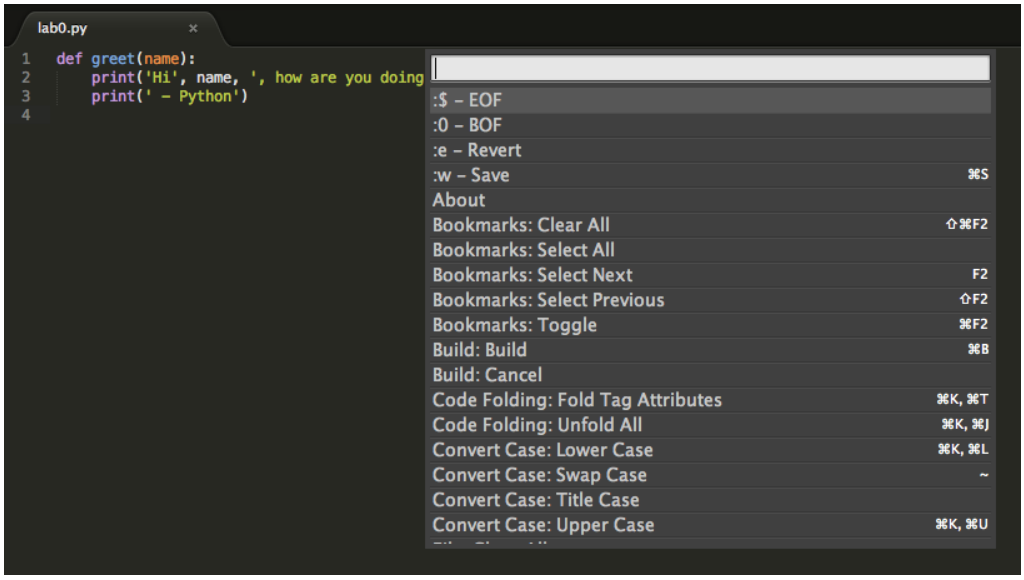
Congratulations, you've edited your first file in Sublime!

Keyboard Shortcuts

Sublime has a some swell keyboard shortcuts. Here are a few useful ones! (for Mac users, replace all the `Ctrl` sequences with `cmd`)

- `ctrl+s` : saves the current file
- `ctrl+x` : cuts the entire line your cursor is on
- `ctrl+v` : pastes the entire line you cut in the line above your curson OR pastes the selected text in place
- `ctrl+d` (my favorite!): highlights the current word. For every 'ctrl+d' you type after this first word, it will highlight every next instance of the word. This allows you to easily rename variables with multiple cursors! (Play around with this one, it's fun!)

- `ctrl+z` : undo
- `ctrl+y` : redo
- `ctrl+tab` : moves you to the next tab
- `ctrl+shift+tab` : moves you to the previous tab
- `ctrl+f` : search for a word
- `ctrl+shift+f` : searches through all tabs
- `ctrl+shift+p` : This one's important. This opens up a little panel of tools! You can do things like type "ss python" which will set the syntax of your file to python or "reindent" will help you reindent a file you paste in (this will be helpful in future labs!)



This guide only scratches the surface of all of Sublime's functionality. Remember, if there's something you wish Sublime could do, it probably can! Just Google it!