Installing matplotlib in Thonny

Please note the process may be slightly different on Macs.

1. Open Thonny:



2. To confirm that matplotlib is not already installed, you should get an error when you type the following into the shell:

```
import matplotlib
```

```
Shell
Python 3.6.4
>>> import matplotlib

Traceback (most recent call last):
    File "<pyshell>", line l, in <module>
    ModuleNotFoundError: No module named 'matplotlib'
>>>
```

3. Now we need to install matplotlib! Select "Tools \rightarrow Manage packages..."



4. You may need to wait a bit for the package manager to load. Next, enter "matplotlib" in the box and click "Search"

限 Manage packages for C	\Users\Joseph\.thonny\BundledPython36\Scripts\python.exe	C
matplotlib	Search	
<install> pip setuptools</install>	Install from PyPI If you don't know where to get the package from, then most likely you'll want to search the Python Package Index. Start by entering the name of the package in the search box above and pressing ENTER. Install from local file Click here to locate and install the package file (usually with .whl, .tar.gz or .zip extension). Upgrade or uninstall Start by selecting the package from the left.	
	Close	

5. Once that loads, click "Install"

🔣 Manage packages for C	:\Users\Joseph\.thonny\BundledPython36\Scripts\python.exe	×
matplotlib <install> pip setuptools</install>	matplotlib Latest stable version: 2.2.0 Summary: Python plotting package Author: John D. Hunter, Michael Droettboom Homepage: <u>http://matplotlib.org</u> PyPI page: <u>http://pypi.python.org/pypi/matplotlib</u>	Search
	Install	Close

6. This process may take a while, as Thonny gathers and installs the necessary packages.



7.	Once that fin	nishes, matplotlib	should now	be installed!	Click "Close"
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T Manage packages for C:\Users\Joseph\.thonny\BundledPython36\Scripts\python.exe			
matplotlib <install> cycler kiwisolver matplotlib numpy pip pyparsing python-dateutil pytz setuptools six</install>	matplotlib Installed version: 2.2.0	Search	
	Install	Close	

8. To confirm the installation, try importing matplotlib again. You should get no errors this time.

```
Shell
Python 3.6.4
>>> import matplotlib
Traceback (most recent call last):
File "<pyshell>", line l, in <module>
ModuleNotFoundError: No module named 'matplotlib'
>>> import matplotlib
>>>
```

9. To get a basic example of how matplotlib works, create a new .py file with the following

text:

```
import matplotlib.pyplot as plt
plt.plot([1, 2, 3, 4])
plt.ylabel('some numbers')
plt.show()
```

10. Running this should give you a simple graph