

# Docker for Mac

1. Install Docker for Mac - <https://docs.docker.com/docker-for-mac/install/>
2. Open Docker Desktop After Installation (Shown below)



3. Download the "launch.sh" script and move it to ~/Documents/dse230
4. To execute the "launch.sh", run commands (*note you only need to run "chmod" once*):  
`cd ~/Documents/dse230`  
`chmod a+x launch.sh`  
`./launch.sh`

*In your terminal you should see this:*

```
Starting the jupyter-spark computing environment on Darwin
Build date: 2020-04-02
Base dir. /home/jovyan/work: /Users/michaelliu/Documents/gpim452

[I 03:02:35.985 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.7/site-packages/jupyterlab
[I 03:02:35.985 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
[I 03:02:35.998 LabApp] Serving notebooks from local directory: /home/jovyan
[I 03:02:35.998 LabApp] The Jupyter Notebook is running at:
[I 03:02:35.999 LabApp] http://ad9ed7702101:8888/?token=22bc7072c41a355c252e40c4e238b0498b15cdb80f3f5b32
[I 03:02:35.999 LabApp] or http://127.0.0.1:8888/?token=22bc7072c41a355c252e40c4e238b0498b15cdb80f3f5b32
[I 03:02:36.000 LabApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 03:02:36.008 LabApp]

To access the notebook, open this file in a browser:
file:///home/jovyan/.local/share/jupyter/runtime/nbserver-1-open.html
Or copy and paste one of these URLs:
http://ad9ed7702101:8888/?token=22bc7072c41a355c252e40c4e238b0498b15cdb80f3f5b32
or http://127.0.0.1:8888/?token=22bc7072c41a355c252e40c4e238b0498b15cdb80f3f5b32
```

5. Open Jupyter Lab using the link shown on the terminal after the container has started.

**Important Notes:**

1. The first time the script is executed, the image is downloaded from docker hub and hence takes a while. Subsequent executions should start the container immediately.
2. You need to work with the files in the `"/work/"` directory of Jupyter Lab. If you save your files in `"/"` directory, your files will be lost if you turn off the running environment.
3. One way to know if you are in the `"/work/"` directory is to see if there is a `"launch.sh"` file in the directory.
4. If you `"Ctrl+C"` exited out in your `"Terminal"`, your docker environment will be deleted.
5. If you did not run `"Ctrl+C"` and you simply closed the `"Terminal"` window, do not worry. The launch script will stop all the previously running docker containers and restart a new one for you.