Data analyses in Docker

1. Write a *Dockerfile*

2. Build an *image*

3. Run a *container*

The `docker build` command

- Large build context can lead to *very* slow build

- You can exclude files and directories from context with a `.dockerignore` file

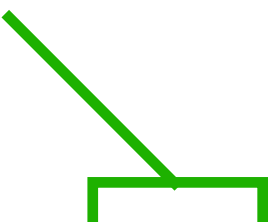
```
*
!jupyter_notebook_config.py
```

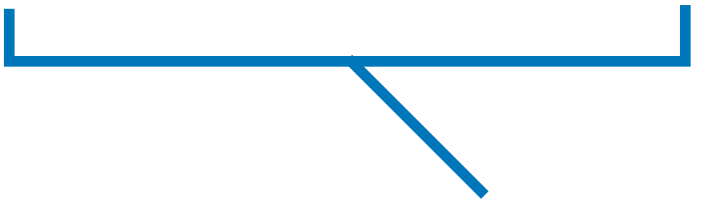
- `docker run` creates and runs a container from an image

- Can be an image you've built locally or any image on Docker Hub

- To run a container from the pre-built version of our image on Docker Hub:

Make the container interactive via the terminal




Mount the current working directory
into /mnt in the container

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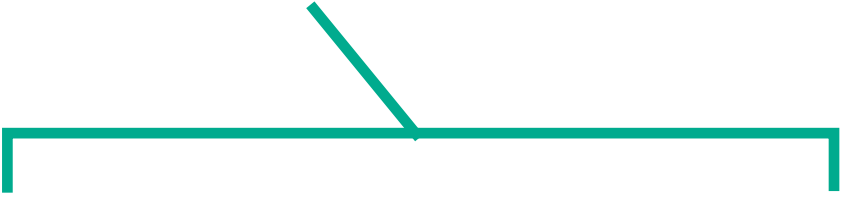
The `docker run` command

Bind port 8888 in the container to port 8888 on the host. Allows us to access notebook server in container from browser on host

Assign a name to the container



Specify the image used to run the container

2. Build an *image*

3. Run a *container*