```
FROM continuumio/miniconda3:4.9.2

ARG port=8888

ENV NOTEBOOK_PORT $port

RUN conda config --set auto_update_conda false \
    && conda config --set notify_outdated_conda false \
    && conda config --prepend channels conda-forge \
    && conda config --set channel_priority strict \
    && conda install -Sy \
        python==3.8.5 \
        pip==20.2.4 \
        notebook=6.1.4 \
        ipywidgets=7.5.1 \
        jupyter_contrib_nbextensions=0.5.1 \
        tini=0.18.0 \
        numpy=1.19.1 \
        pandas=1.1.2 \
        matplotlib=3.2.2 \
        seaborn=0.11.0 \
    && conda clean -afy

COPY jupyter_notebook_config.py /root/.jupyter/

WORKDIR "/mnt"

ENTRYPOINT ["tini", "-g", "--"]

CMD ["jupyter", "notebook"]
```

Data analyses in Docker

1. Write a *Dockerfile*

2. Build an *image*

3. Run a *container*

Dockerfile Instructions


ARG

- Defines an argument that can be passed via the command line when building the image
- The port the Jupyter notebook server will listen on
- Variable persists for the remainder of the build


ENV

- Sets an environment variable for the remainder of the build *and* in containers run from the resulting image

2. Build an *image*

3. Run a *container*

1. Write a *Dockerfile*

command line when building the image

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- Variable persists for the remainder of the build

- The port the Jupyter notebook server will listen on

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build *and* in containers run from the resulting image


RUN