Article Fabian Haupt · Aug 3, 2017 3m read

# Visualizing the data jungle -- Part IV: Running Yape in a docker image

In this short article we talk about how to get <u>Yape</u> running in a docker container to avoid having to setup python on your machine.

It's been a while since the last article in this series, so let's recap quickly.

We talked about using <u>matplotlib to create a basic graph</u>. Afterwards we introduced <u>dynamic graphs using bokeh</u>. In the 3rd part we talked about generating <u>heatmaps using monlbl data</u>.

A common theme in the feedback I got over various channels was the difficulty setting up an environment to run any of these. So we decided to make it a bit easier and I teamed up with Murray to create a Dockerfile for his excellent tool <u>Yape</u>. <u>Github page</u>

Of course you'll have to have <u>docker</u> installed and running your machine for this.

## Dockerfile

A rather simple docker definition based on the official python images:

FROM python:3

WORKDIR .

```
COPY requirements.txt ./
RUN pip install --no-cache-dir -r requirements.txt
```

COPY . .

#### source

Requirements.txt contains the packages necessary to get yape up and running in there:

altgraph==0.10.2 py-dateutil==2.2 bdist-mpkg==0.5.0 certifi==2017.7.27.1 cffi==1.10.0 chardet==3.0.4 idna==2.5 bokeh==0.12.6 macholib==1.5.1 matplotlib==2.0.2 pandas==0.20.3 modulegraph==0.10.4 numpy==1.13.1 py2app==0.7.3

```
pycparser==2.18
pyparsing==2.0.1
python-dateutil==1.5
pytz==2013.7
requests==2.18.3
six==1.4.1
urllib3==1.22
zope.interface==4.1.1
```

#### source

To build the image, simply check out the github repository and then run docker build:

```
git clone https://github.com/murrayo/yape.git
docker build -t yape .
```

(until the pull request has been merged, use https://github.com/kazamatzuri/yape.git)

This will take a couple of minutes depending on the speed of your machine/internet connection.

Afterwards you can run yape on your pButtons file like this:

```
docker run -v `pwd`/in:/data --rm --name yape-test yape \
./extract_pButtons.py -o /data \
/data/pButtons.html
docker run -v `pwd`/in:/data --rm --name yape-test yape \
./graph_pButtons.py -o /data/charts /data
```

We're using

### /in

in the current working directory and map it to /data in the container. We'll get the pButtons.html from there and also output the graphs into that directory.

#### Note

I had to add parameters to the scripts, we're merging them over into the official yape repository (pull request)

#Docker #Performance #Python #Tools #Visualization #Caché

Source URL: https://community.intersystems.com/post/visualizing-data-jungle-part-iv-running-yape-docker-image