

Article

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

In this short article we talk about how to get [Yape](#) 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 [matplotlib to create a basic graph](#). Afterwards we introduced [dynamic graphs using bokeh](#). In the 3rd part we talked about generating [heatmaps using monlbi data](#).

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 [Yape](#). [Github page](#)

Of course you'll have to have [docker](#) 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](#))

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