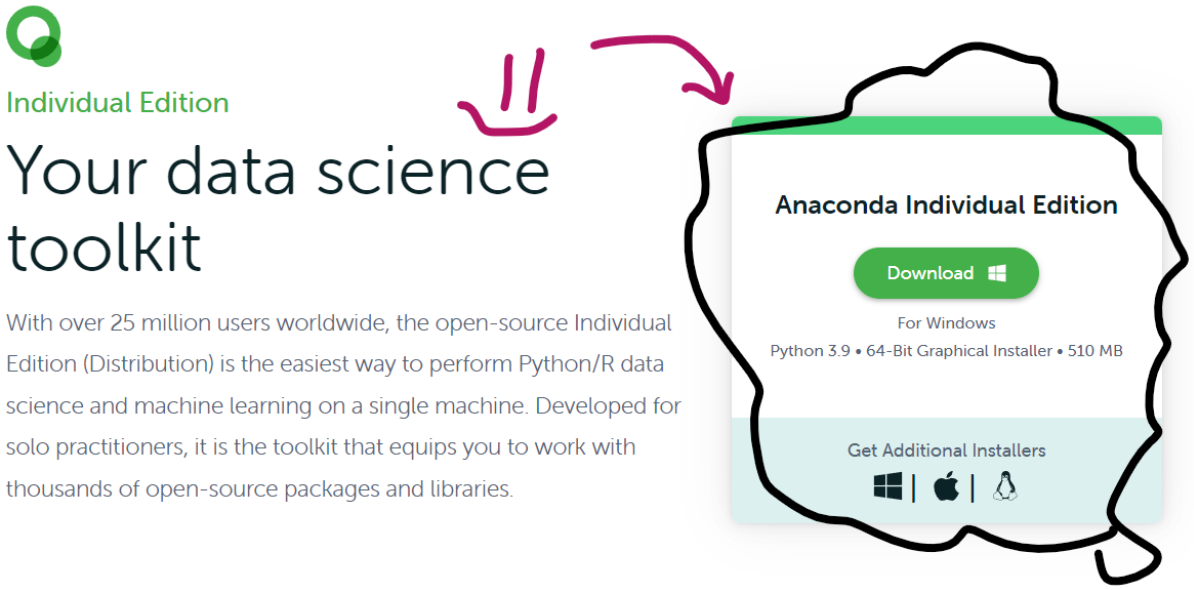
Getting ready for the Streamlit Workshop

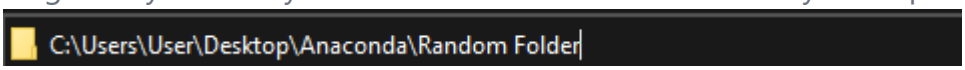
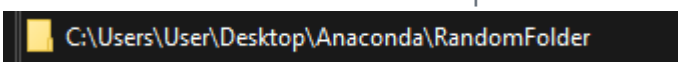
Hey, if you're reading this then you're considering following along or trying out the demos the speaker shows in the workshop. The speaker will show you how to setup a project properly in **Anaconda** ?. This should help lay the groundwork for future events by the club as well as your own python endeavors ?.

Installing Anaconda

Go to the Anaconda Installation Page to download the Graphical Installer for Anaconda that works for your system.



Follow the recommended installation instructions.

> ?Some packages may break if you install anaconda in a file directory with spaces in the name like 
>
> so it may be best to ensure that there are no spaces like this
> 
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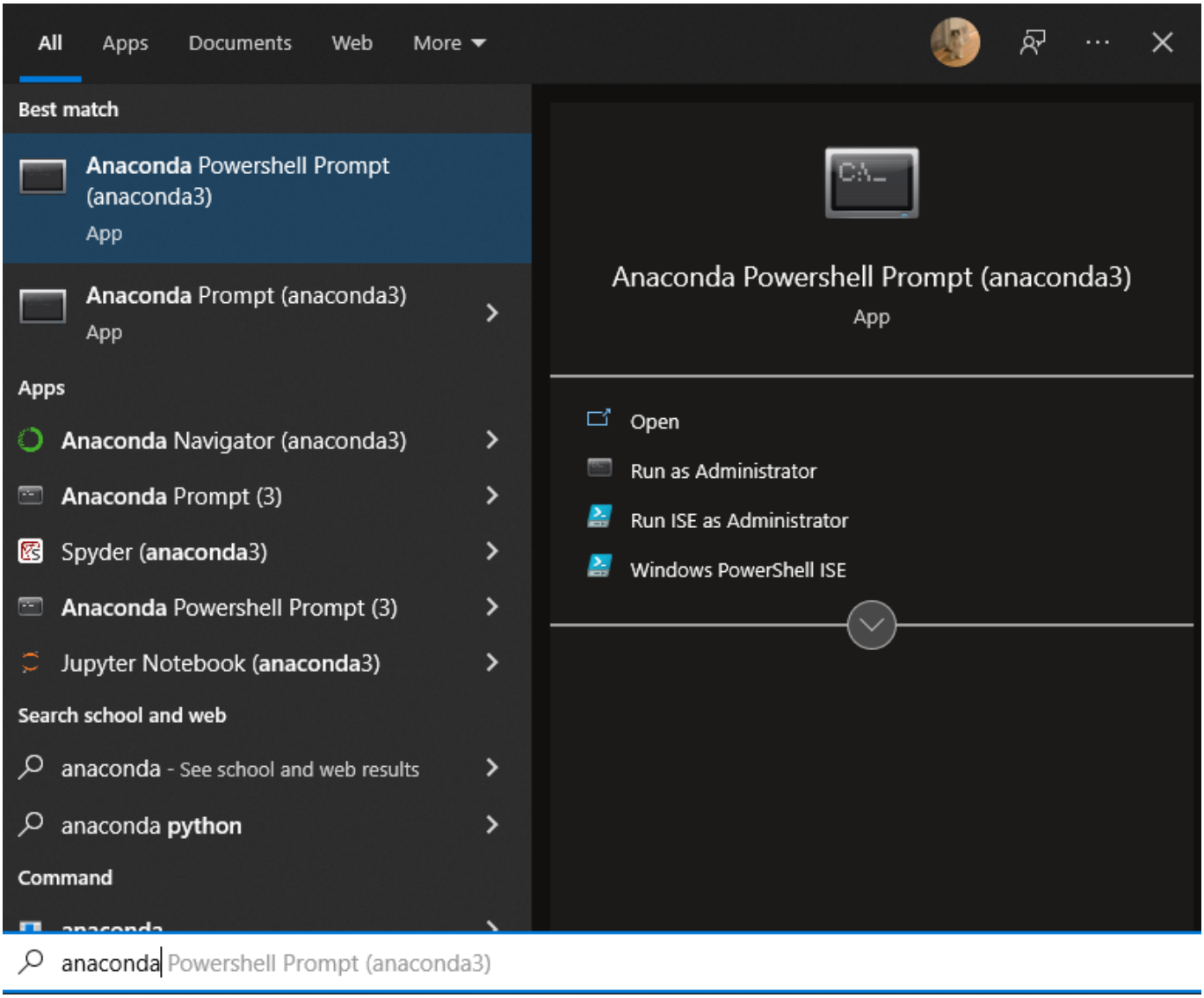
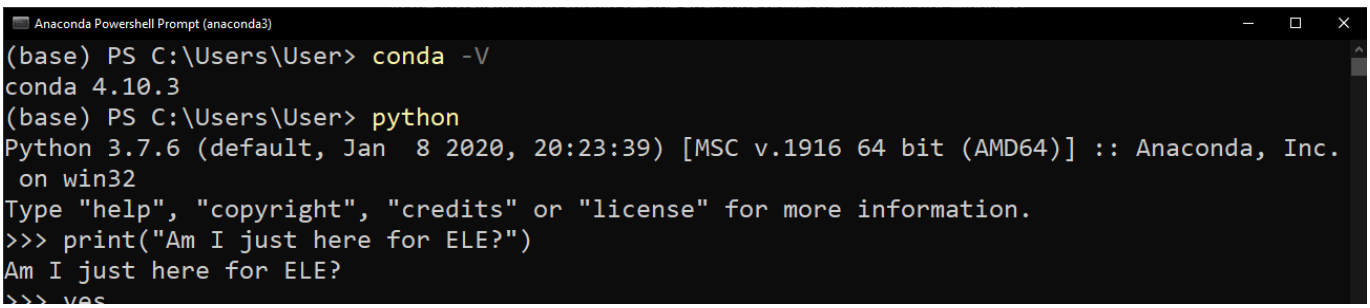
Testing whether you're good at installing stuff

If you successfully installed anaconda following the recommended settings that popup in the installation you should see the anaconda PowerShell prompt (for windows).



You can test whether the installation is working properly by running the following commands in the terminal:

```
conda -V
```



Making a virtual environment and installing the required packages

For the event we'll be working in a virtual environment. This is the best practice whenever you're working on a new python project - to prevent package version conflicts down the line.

To make a virtual environment you can use the following command:

```
conda create --name streamlit python=3.9
```

```
The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    certifi-2022.6.15          |   py39haa95532_0         153 KB
    openssl-1.1.1p             |       h2bbff1b_0         4.8 MB
    sqlite-3.38.5              |       h2bbff1b_0         798 KB
    ------------------------------------------------------------
                                           Total:         5.8 MB

The following NEW packages will be INSTALLED:

  ca-certificates    pkgs/main/win-64::ca-certificates-2022.4.26-haa95532_0
  certifi            pkgs/main/win-64::certifi-2022.6.15-py39haa95532_0
  openssl            pkgs/main/win-64::openssl-1.1.1p-h2bbff1b_0
  pip                pkgs/main/win-64::pip-21.2.4-py39haa95532_0
  python             pkgs/main/win-64::python-3.9.12-h6244533_0
  setuptools         pkgs/main/win-64::setuptools-61.2.0-py39haa95532_0
  sqlite             pkgs/main/win-64::sqlite-3.38.5-h2bbff1b_0
  tzdata             pkgs/main/noarch::tzdata-2022a-hda174b7_0
  vc                 pkgs/main/win-64::vc-14.2-h21ff451_1
  vs2015_runtime     pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
  wheel              pkgs/main/noarch::wheel-0.37.1-pyhd3eb1b0_0
  wincertstore       pkgs/main/win-64::wincertstore-0.2-py39haa95532_2


Proceed ([y]/n)? y
```

Press `y` when prompted by the command prompt.

The above command will create a virtual environment named `streamlit` with the python version `3.9`. Activate it with:

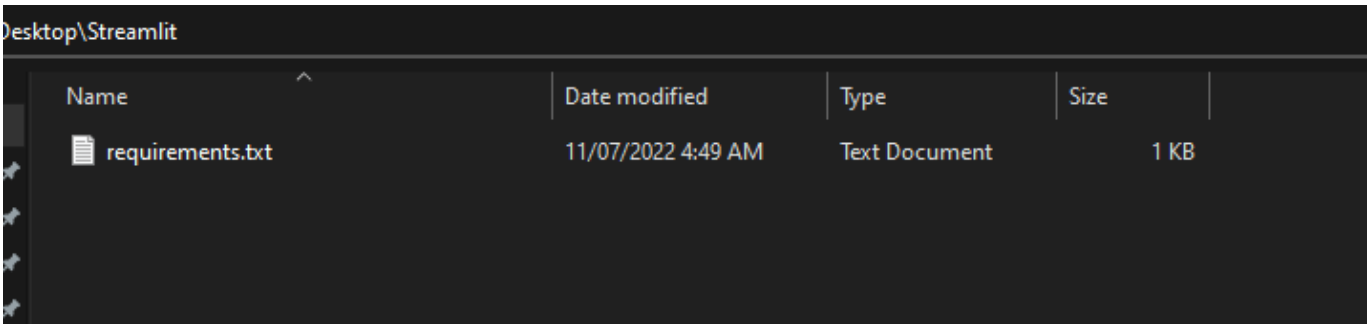
```
conda activate streamlit
```

```
(base) PS C:\Users\User> conda activate streamlit
(streamlit) PS C:\Users\User>
```

Since some packages (like streamlit) may take some time to install, we'll be installing all the libraries used for the event ahead of time if you want to follow along.

To do so make a `requirements.txt` file in a folder you'll be working in for the event. Navigate to the folder and copy paste the following text in the file.

```
streamlit
numpy
pandas
plotly
matplotlib
```



Run the command in the folder with your `requirements.txt` file while your `streamlit` environment is active:

```
pip install -r requirements.txt
```

This will install most of the big packages so you don't have to install them one by one.

If you want to follow along with the speaker make sure you followed all the steps up to this point. If you have any issues with your **Anaconda Installation** contact the following Committee:

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