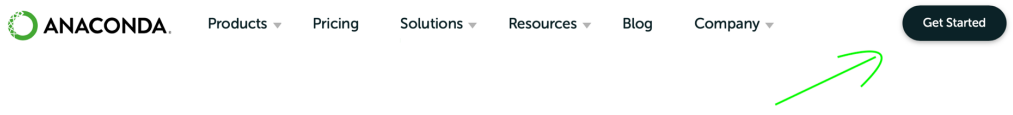
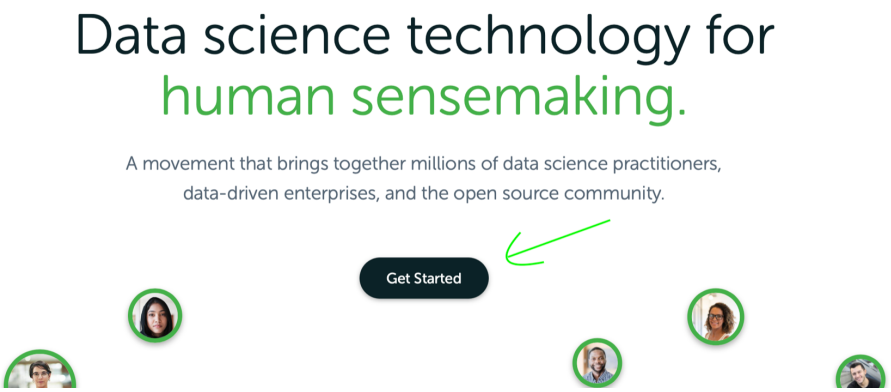
TUTORIAL: How to set up your Automatic Cell Counter and Use for the first time

This tutorial describes how to set up your environment to use Automatic Cell Counter (ACC) on a Windows machine. The steps were tested on Windows 10. If you try this on a different Windows distribution and encounter problems contact us at:

1. **Install Anaconda**
    a. Visit www.anaconda.com
    b. Click Get Started

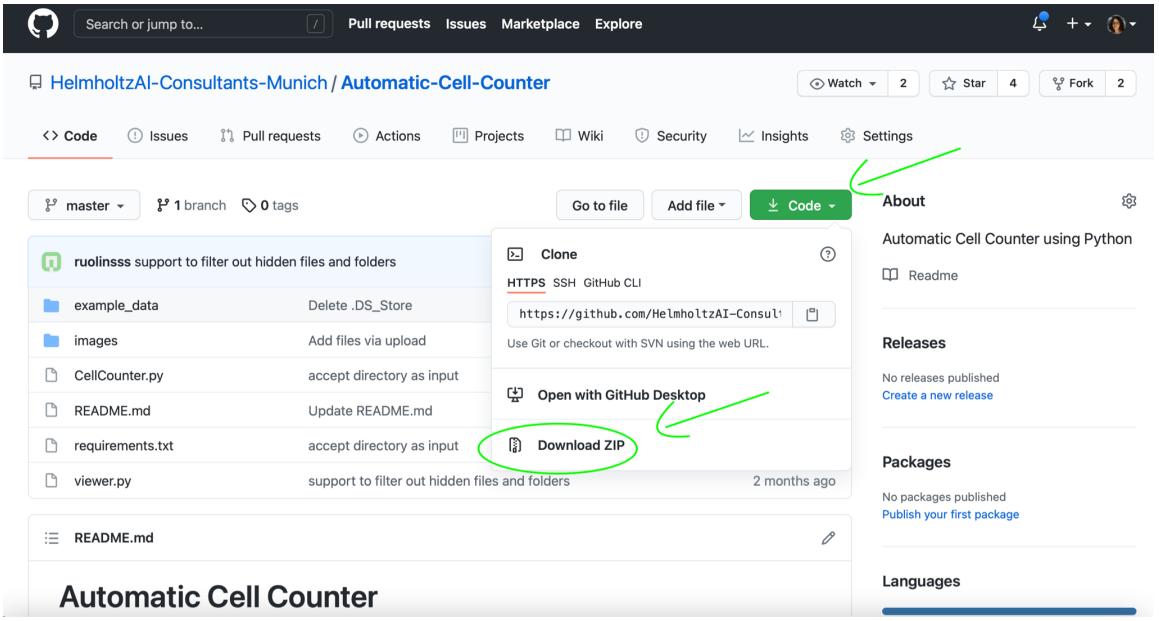




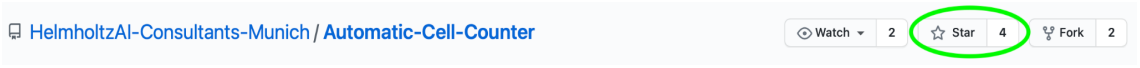
    c. Select “Download Anaconda Installers”
    d. Choose the installer that matches your operating system, e.g. Windows and 64-bit

    e. Install anaconda following the steps described here: https://problemsolvingwithpython.com/01-Orientation/01.03-Installing-Anaconda-on-Windows/

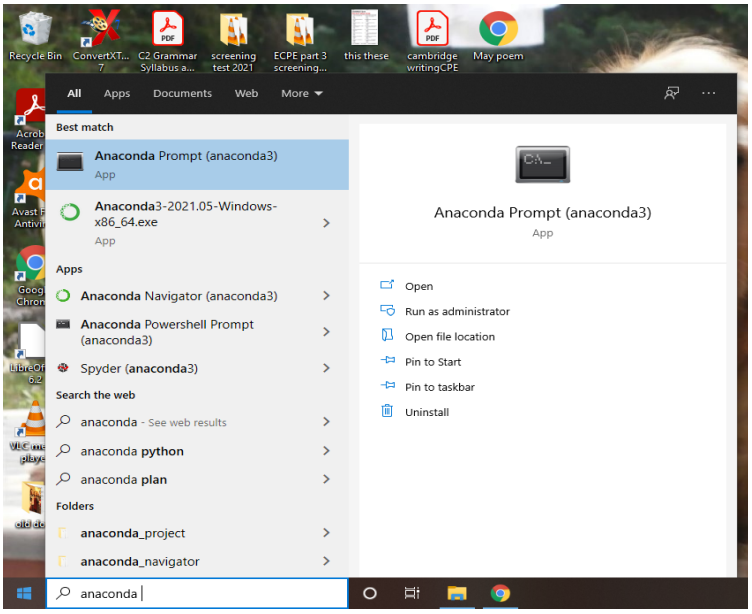
2. **Download Automatic Cell Counter and install packages**
    a. Visit the project repo here: https://github.com/HelmholtzAI-Consultants-Munich/Automatic-Cell-Counter
    b. Go to Code and the Download ZIP



    c. If you like our work and you have a github account you can leave us a star!



    d. Once the repository is downloaded, unzip it using your standard unzip software.
    e. In your windows panel type “Anaconda Prompt”. This will open the command line of Anaconda.



    f. Once you have opened the prompt, navigate to the location of the unzipped directory, e.g.

```
cd Desktop/Automatic-Cell-Counter-master
```

Note: If you do not know how to navigate to that directory you can find the full path to it by following the steps described here: https://www.laptopmag.com/articles/show-full-folder-path-file-explorer

g. Install required packages by typing:

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

Note: If you get an error ```pip: command not found``` you should first install it by:

```
conda install pip
```

After the installation is complete you are all set and ready to use our package!

3. **Running Automatic Cell Counter**

To run our package only one input is required from the user - this is either the path to the image on which they wish to count cells or the path to the folder of images. For this you will need the (full or relative to the package directory) path of your image or folder.

a. If you do not know the full path of your images or folder follow the steps described here: https://www.laptopmag.com/articles/show-full-folder-path-file-explorer
b. Once you have the path of the image, repeat steps 2e. and 2f. to navigate to our package's folder which we downloaded and unzipped.
c. To run the package type the following (replace example_data/ with the image folder path in your computer):

```
python viewer.py --image example_data/
```

That's it! You have successfully run our package! For a more detailed description on how to use the package, examples and a description of the methods we use read the readme here.