1. Installing Anaconda and Creating an Environment

Windows:

1. Download and install the windows version of anaconda for python 3.7 (https://www.anaconda.com/distribution/)
    a. This might take a while so skip to section 3 whilst you wait
2. Find and run the Anaconda navigator application
3. Click 'Environments' on the left pane
4. Click 'Create' to make a new environment – choose python and set the version to 3.6
5. Click on your new environment, press the green triangle, and select 'Open Terminal'

Mac:

1. Download and install the mac version of miniconda for python 3.7 (use the .pkg installer)
2. Open a terminal and type `conda`
    a. If you get an error, type 'bash' and try again
    b. If you still get an error, type:
    `source ~/.bash_profile`
3. Create a new environment by typing:
    `conda create -n SBOL-Workshop python=3.6`
4. Enter the new environment by typing `conda activate SBOL-Workshop`

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2. Downloading jupyter notebook and pysbol

All Operating Systems:

1. Type `pip install pysbol jupyter` to install the pysbol library and jupyter notebook
2. Type `jupyter notebook` – it should open in your browser

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3. Downloading Workshop Files

All Operating Systems:

1. Create a new folder for the workshop
2. Go to the workshop materials folder on github (links from the IWBDA webpage): https://github.com/SynBioDex/Community-Media/tree/master/2019/IWBDA19/workshop
3. Click on the 'parts.xml' file, click the 'raw' button, then right click and save the file into your new folder
4. Repeat with the 'results.txt' file

5. Click on the ‘sbolWorkshop2018.ipynb’ file, click the raw button, and save the file into your new folder – NOTE: delete the .txt from the end of the name and change the file type to ‘all files’
6. Repeat with the ‘solution.ipynb’ file

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4. Running the Notebooks

1. Go to the browser tab with jupyter which opened in section 2
2. Navigate to the folder where you saved the workshop files
3. Open the sbolWorkshop2018.ipynb and solution.ipynb files