Getting started

Step 0: Logon to the computer

Username: .\lrcguest (note: backslash, not forward slash)
Password: (will be provided)

Step 1: Getting used to the terminal

We will also be making use of the Windows Terminal, which has a nice interface to the Power Shell. The Power Shell contains many features, including a command-line interpreter for interactive use and a script interpreter for automation of tasks in a given language defined for it.

You may also need to install the Windows Terminal, but this is easily done through the Microsoft Store.

A few useful commands

cd <path>	change directory to <path>
..\	relative path to parent directory
ls	List items in directory
pwd	show current directory path
exit	close terminal

Tip: Tired of typing similar things into the terminal? Use 'Tab' for autocomplete or Ctrl+c/Ctrl+v to copy/paste commands.

Step 2: Install Anaconda (optional)

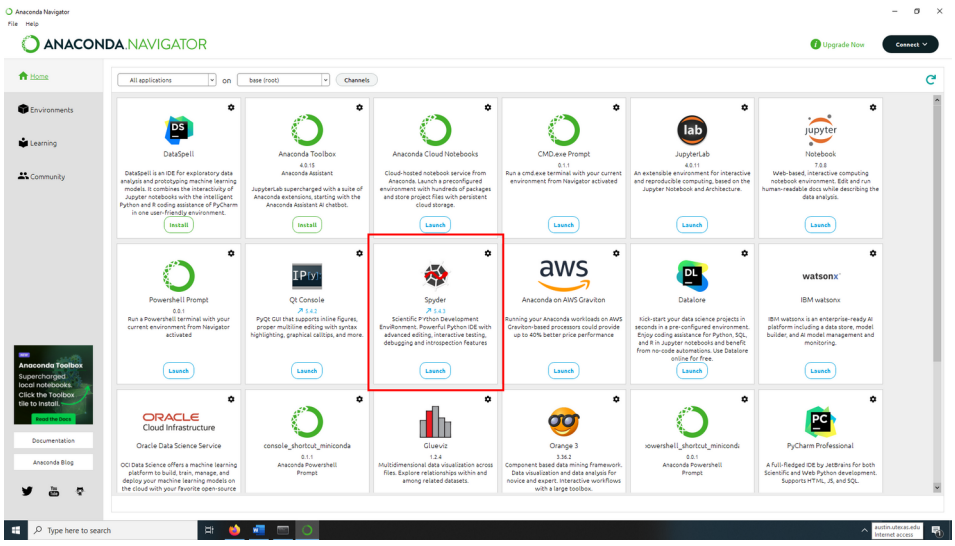
Anaconda provides a convenient integrated environment for all things Python related.

Anaconda may already be installed on your machine. You can check by going into the Start menu and searching for "Anaconda Navigator".

If you need to download Anaconda:

- Go to https://www.anaconda.com/download. You may choose to register your email address but are not required to for the download (there is a small "Skip registration" at the bottom). Either the Distribution Installer or Miniconda Installer is fine. Miniconda is a smaller version of the full distribution.
- Choose the download corresponding to Windows. Open the file called "Anaconda#-###-Windows-XXX.exe" and click on it. The *.exe takes you through the steps of installation.

Open “Anaconda Navigator.” Ignore any prompts requiring sign in or updates.
You should see a window that looks like the following:



In some of the exercises, we will be using the Spyder IDE (red box) to edit files and run them.

Download the code

Step 3: Download the code

Today, our computational exercises are in two parts. Download the the correspond codes from one of the provided links

- Box:
- Github:

- Part 1: Conway’s Game of Life
- Part 2: Spinodal Decomposition

Step 4: Setting up the tutorial

Important! For all exercises, make you sure you are in the correct directory.
This tutorial will assume you are working from the Downloads directory.

The following commands will navigate you to the Downloads directory, extract the files from the downloaded code, and show you the items in the current directory.

```
cd C:\Users\lrcguest\Downloads\
tar -xf .\MITE-Su25-cellular-automata-selected.zip
ls
```

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Important! The tutorials may require the installation of certain Python packages. Run the following command below to install the appropriate packages.

```
pip3.13.exe install windows-curses numpy matplotlib
```