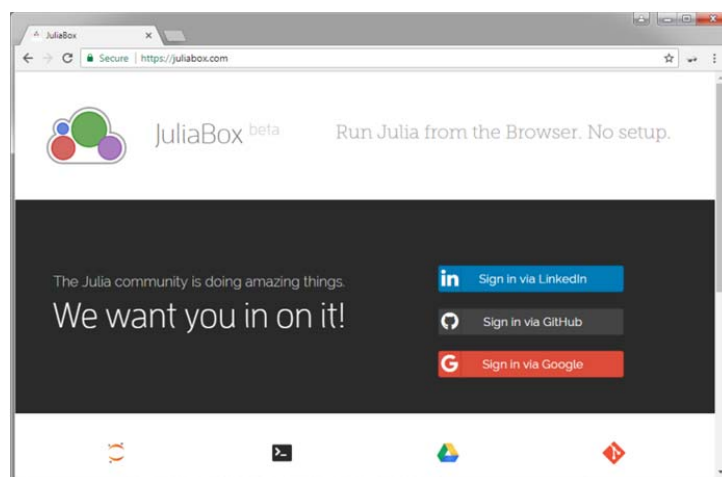# Install "Julia Pro" or log into "Julia Box"

In this course we use the computing language Julia.

Setting up Julia and creating/uploading notebooks
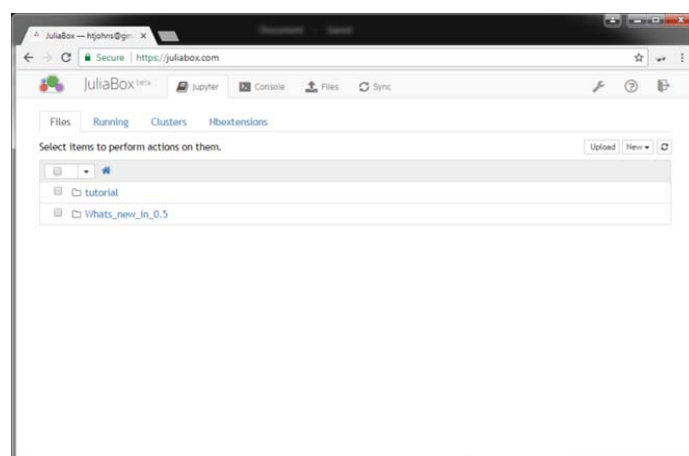
You have two ways to set up Julia. Please choose one of them.

1. Install Julia Pro (free) on your computer. Go to
   https://juliacomputing.com/products/juliapro.html and follow download instructions. After
   installing successfully, you may start Julia Pro and you will see something similar to what you
   would see after logging into Julia Box. The difference is that you are working on your own
   computer with Julia pro and you don't get worried when Julia Box is down or when
   connection is bad.
2. Use JuliaBox, a cloud-based program you can access from a web browser. We'll be using JuliaBox
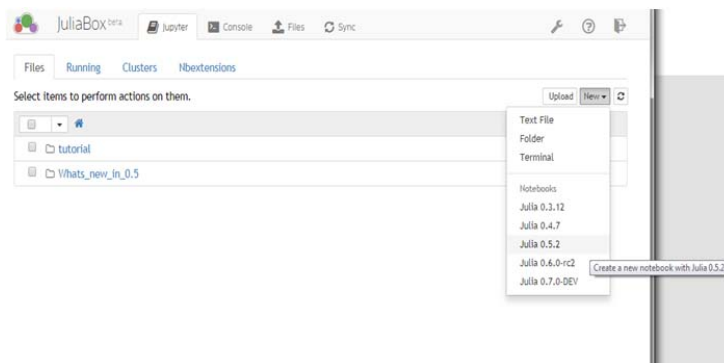   for things here.
   Go to https://juliabox.com/ and click on "Sign in via Google". Log in using your RMIT student
   account, the same way as you would to check your student email. (If you use gmail for your
   personal email, you could log in with your personal account instead).
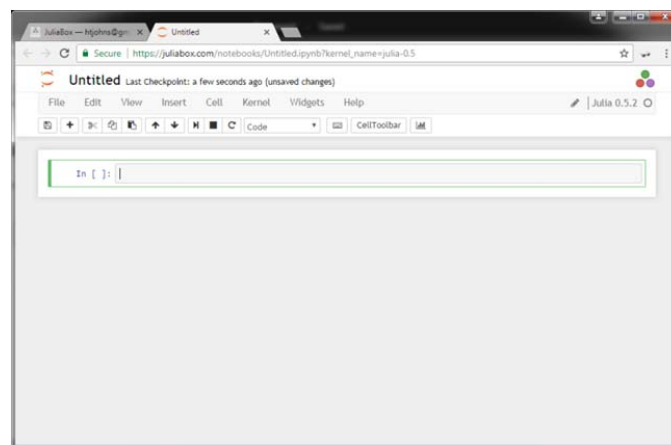

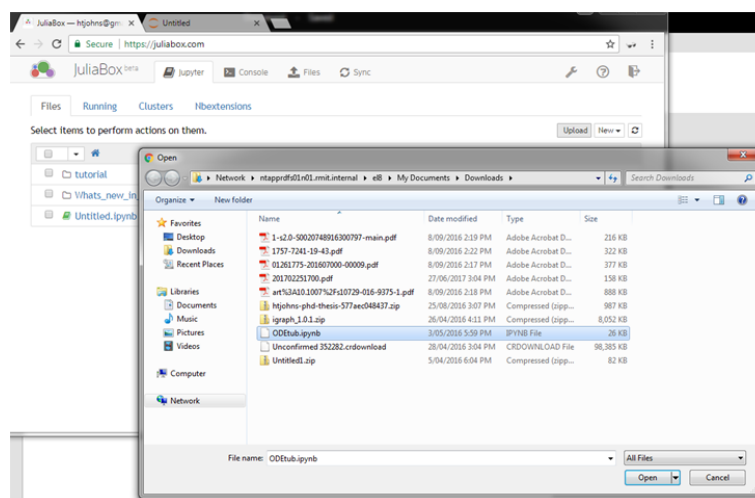Once you're logged in, you should see a screen that looks like this:

The things we want here are the "Upload" and "New" buttons at the top right. To create a new notebook, click on "New", and select "Julia 0.6.2.2"

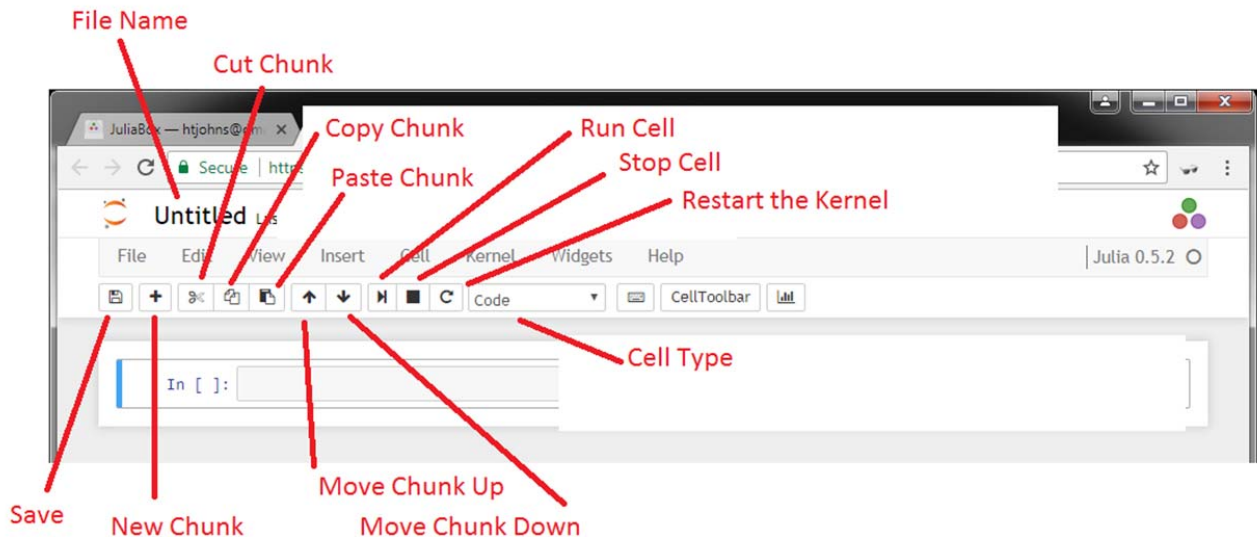This creates a new tab, with a window that looks like this. We'll come back to this in a minute.

Go back to the other tab. Selecting the "Upload" button will bring up a window to select a file on your computer to upload. This will let you upload and open workbooks in Julia (often with file extension .ipynb) to JuliaBox. Use this to upload and open content for the computer labs.

JuliaBox Basic Controls

In the new file, there's a whole bunch of buttons to control things. Here's a quick overview:

File Name: The name of this workbook (By default, "Untitled", "Untitled1", etc). Click to change.

Save: Save the current workbook (Ctrl+S will do the same)

New Chunk: Create a new "Chunk", or "Cell" for input.

Cut Cunk: Cuts the currently selected cell

Copy Chunk: Copies the currently selected cell

Paste Chunk: Pastes the last cell to be cut or copied (below the currently selected chunk)

Move Chunk Up: Move the currently selected chunk up one spot

Move Chunk Down: Move the currently selected chunk down one spot

Run Cell: Run the current cell and execute any code in it (Ctrl+Enter or Shift+Enter will do the same)

Stop Cell: Stop code execution

Restart the Kernel: Turns Julia off and then turns it back on again. **This will clear any variables stored in memory, but will not remove any output already printed.**

Cell Type: Determines the type of cell. We will be using either Code or Markdown. Basically, Markdown cells are places where you can write things to go along with the code and explain your results.

Now, you can upload Week01Tute_using Julia.ipynb and start your Julia experience.