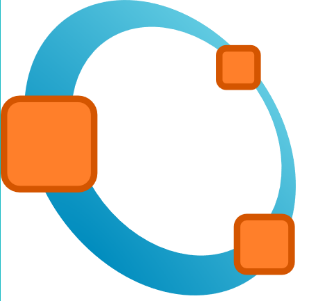
**Downloading Octave on a Mac and PC**

**Mac Instructions**

*(Last successfully done on Sep 15, 2021 with Big Sur 11.3)*

Go to <http://octave-app.org/Download.html>

Scroll down to “Download: Octave-6.2.0.dmg”. Download this file. It is about 851 MB.

Once downloaded, click on the file. Agree to the conditions.

You will get a prompt to drag Octave-6.2.0 into your applications folder. Do this. It took my old mac about 5 minutes. It took my new mac less than 1 minute. When it is done, you should be able to find Octave in your applications folder.

When you open Octave, you may receive a warning that it is from an “unidentified developer” or the “the developer cannot be verified.” If it gives you a “run” option, select it. This will override the warning. If it does not give you the option,

* Go to Finder 🡪 Applications
* command-click the app icon (or two-finger-click or however you pull up the options menu), then chose “Open” from the options menu.
* Click Open. It might take a while the first time you open it.

The app is then saved as an exception to your security settings, and you can open it in the future by double-clicking it just as you can any registered app.

You might get a notification that Octave “would like to access files in your Documents folder.”

Click OK.

Once everything is finished, remove the dmg file. Here is one way

* Finder 🡪 Downloads
* Find the dmg file
* Move to Trash

You may be prompted to install fonts. Do so.

Follow steps to configure Octave.

Decide whether you want Community News. I did not.

Done

**PC Instructions**

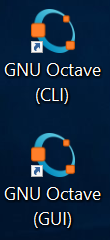
*(Last successfully done in July 2020 with Windows 10 Pro - version 10.0.18363)*

Go to <https://www.gnu.org/software/octave/>

Click “Download”

Go to the Windows download section and find the line: **octave-6.3.0-w64-installer.exe (~ 325 MB)**

This should be the first option. Click on the .exe file to download.

Once downloaded, open the file. If you do not have Java Runtime Environment, you will might get a popup. This is not a big deal. You can still “Continue with installation.” (Update: I think the newest versions of Octave will install JRE for you if it is not there.)

Push “next” a few times to finish the installation. Make sure that the setting “Register .m files with Octave” option is selected. (It should be selected by default.)

You may get two icons on your desktop: CLI and GUI. You can delete the CLI option   
(unless you’re a hard-core programmer who likes everything to look very plain).

**Make Sure it Works**

Go to the Command Window and try some of these commands and see what happens.

x = [1 2 3; 4 5 6]

y = [7; 8; 9]

x\*y What happens?

y\*x What’s wrong?

x = linspace(-2, 2 11); 🡨 The “ ; ” means that Octave will define x but not show it to you.  
 Leave it off to see how Octave defines x.

What do you think the linspace command does?

y = x.^2; 🡨The “ . ” is not a typo.   
 (Leave off the “ ; ” to see the values in y)

plot(x, y) 🡨 Will look a little bumpy. How could you start over and make it prettier?

xlabel(‘x’)

ylabel(‘y = x^2’)

Note: When I type quotes in Microsoft Word, they come out in a nice curly form:

“ ” or ‘ ’

But Octave’s/MATLAB’s quotes are actually a different character:

" " or ' '

So whenever you see quotes in these PDF instructions, you should not copy/paste that code into Octave. Just type it out by hand.

I could just hit Ctrl+z every time Word gives me curly quotes. But I choose not to. 😁

sqrt(-1)

sqrt(3+7i) Pretty impressive, right?

sin(90) 🡨 What does the result tell you about Octave?

deg = pi/180;

sin(90\*deg)

Instead of typing something, press the “ ↑ ” arrow. What happens? Press it a few times. How is this useful?

If everything is starting to look messy, type: clc

Want to close the program the fancy way? Type: quit