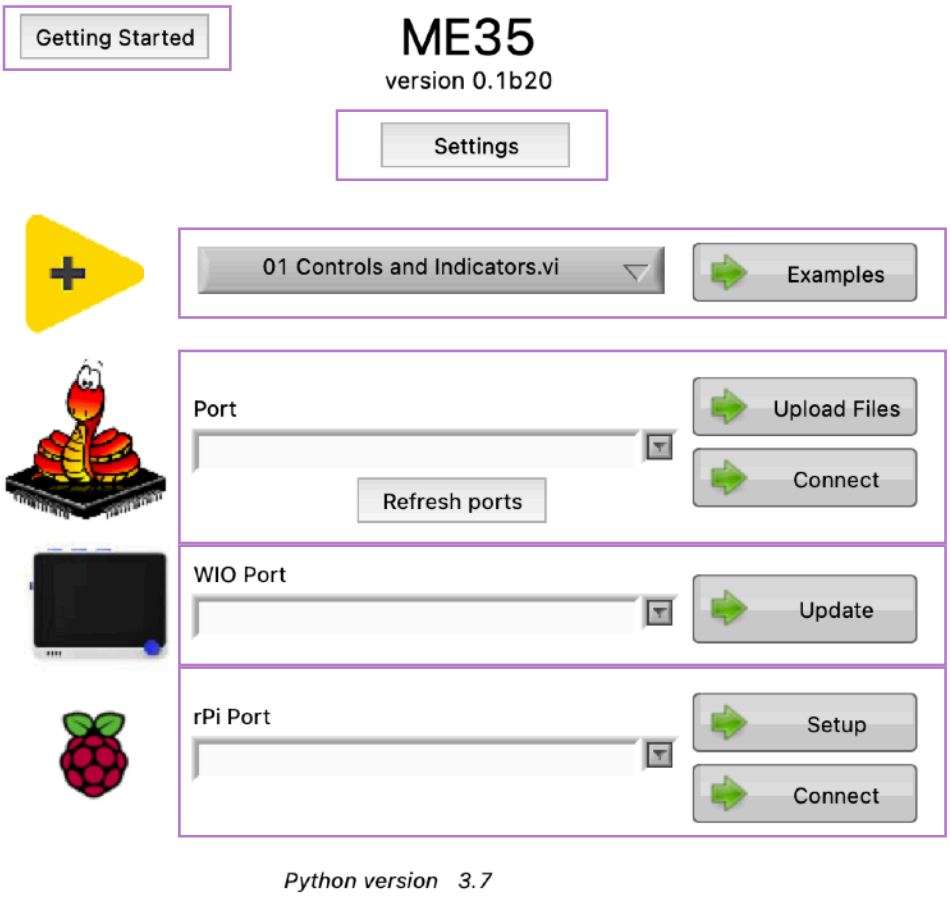
PyVIEW

Software that lets you talk over serial to a lot of different microprocessors that I wrote for my class.

1. Installing everything properly
    1. LabVIEW
    2. Python 3.X
2. First Run
    1. Settings
    2. Connect to microprocessor
3. Learn LabVIEW

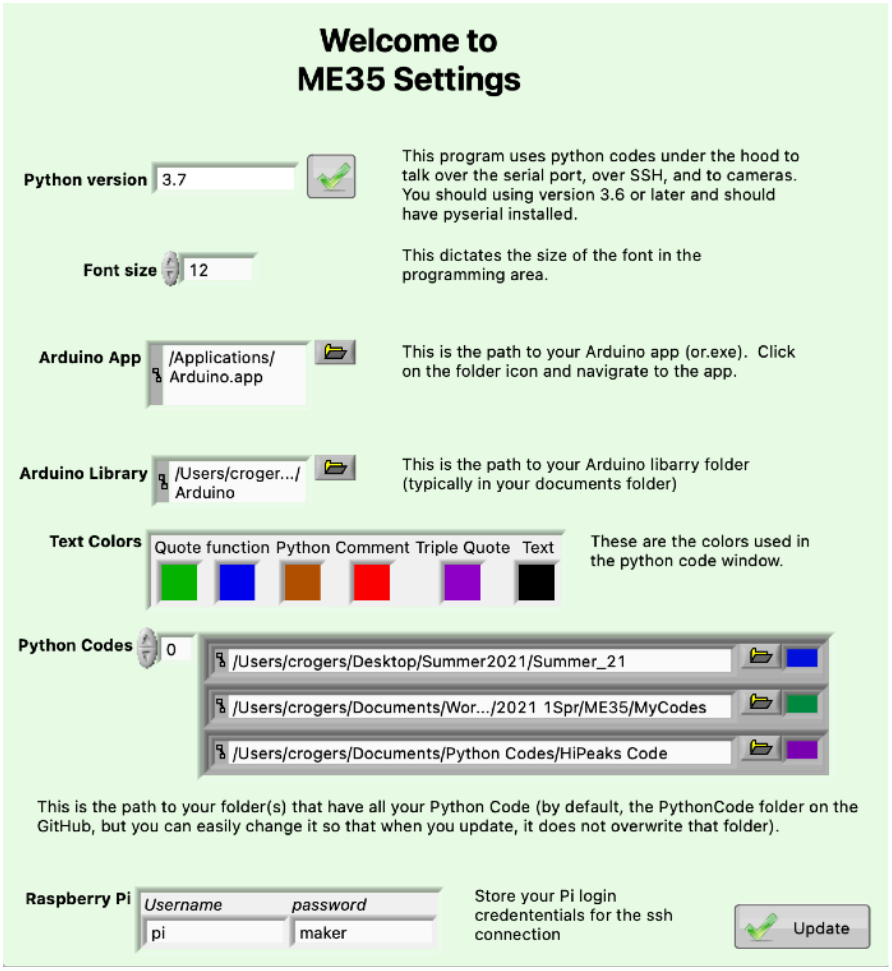
Splash Screen



Getting Started
This button opens up a PDF of documentation

Settings

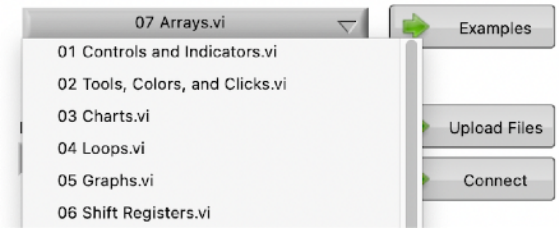
The settings area lets you control defaults for PyVIEW. First, make sure to enter the correct ***python version*** used by your computer and confirm that LabVIEW can find it with the check box. If it does not fund it, try reinstalling with just the python installer - and make sure to use the correct bit depth (Mac is always 64 bit, many PC versions of LabVIEW are 32 bit - you can check by looking at the splash screen as LabVIEW starts up. ***Font size*** lets you vary the size of the code font and the console font in the IDE. PCs seem to prefer larger fonts. The ***Arduino paths*** are only if you are using the WIO. ***Text colors*** let you choose your favorite color pattern for the coding area. Next, the ***Python codes*** array is a listing of all the folders that the IDE will display in the IDE. Note that you can change the color of the text in the listing depending on which folder it comes from. Finally, if you are using ssh to connect in to your ***Pi***, save the username and password here.

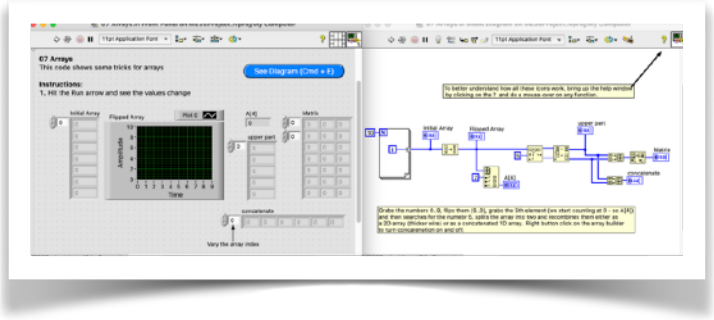


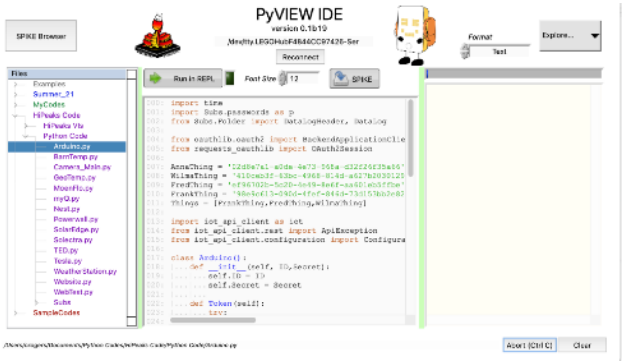
Closing the window will revert to the last saved values, update will save the current settings.

LabVIEW Examples

PyVIEW is written in LabVIEW with python handling all the serial and ssh communication underneath. In this way, you can edit / modify the code however you want if you know LabVIEW. Learn LabVIEW by playing with examples - this dropdown menu has a bunch of simple labVIEW code examples - simply select one and click on Examples to check it out.





Connecting to a Micropython processor

Select your processor from the dropdown list - if it is not there, then hit refresh ports. Make sure everything is on and connected. The upload button allows you to select any file you have on your host computer and upload it to the microprocessor. The Connect button opens up the PyVIEW interface.