

Update F11

I am working on setting up the double slit experiment in VPython. Since this is my first time working with the program, I am dedicating a lot of time to thoroughly learning all of the functions and commands at my disposal in the library. Currently, the physical setup of the laser and both screens are complete. I am investigating ways to have fringes show on screen2.

Fringes could appear as simple boxes—which I may use as preliminary markers for fringe positions—or as semi-opaque objects. To emulate the appearance of actual bright bands, I could use a number of thin boxes of varying opacity to make them look faded-out at the edges. However, these details are not of major concern right now. The next order of business will be to have the program calculate the fringes' locations and number.

Although not mentioned in the project proposal (which can be seen under **Week 9** on the webpage), intensity of the different bands varies and can be easily calculated. This may also be included in the double slit simulation.

The next update should include a visual representation of my progress.