**What is it like?**

It's the razer chroma for addressable LED strips on an Arduino board. OR, it's the customizer for an addressable RBG LED strip for people that do not know how to code. It will include a

GUI for the user. The arduino must be connected to the computer for this to work.

**What problem does it solve?**

When coding for an RGB LED strip or matrix that's addressable, setting each and every little LED takes work, and experience in coding C++. It is tedious and many people do not know how to code, blocking them from using these strips and panels.

**How does it solve the problem?**

you can use a GUI to change patterns and colours of the LED's, connecting to the arduino through a USB serial port and the arduino IDE, which is built in java. This allows people to

have a simple, easy to use and quick application to set up their LED strips. It will be able to do

various patterns on the strip/matrix, and on a matrix display scrolling or stationary text, function as a music visualizer. The program will also allow saving profiles to allow quick loading presets

previously defined by the user. As a stretch goal, There should be patterns to detects key presses and programs. This would allow, for example, a flash or ripple when a key is pressed, and possibly automatic profile loading when it detects certian programs are started or currently

running. It could also detect the system date and time to change pattern depending on the

current time of the day/month/year. For example, it turns red and green by default in December,

but it changes to the music visualizer profile automatically when it detects the music player has

been started.