Pros:

* Practically unlimited amount of profiles
  + However, may be a hassle to get back to a profile you want if there are too many
* Python code is relatively easy to modify according to user’s needs

Cons:

* Only 4- Keys per profile due to hardware
* ~~Can’t utilize all HID Keycode modifiers like backspaces, shifts, Function keys, etc. at the same time as characters or strings~~
  + ~~plan to use if statements to address this~~
* Doesn’t work if you want to hold down a button (with something like shift or ctrl)

Notes from changing to function:

* When converting to two functions (handleColors and handleButtons), I was not able to get the index value to change
* went back to non-function version to verify working code beforehand
  + found out my print statement for cur\_index was inaccurate
* ended up making a third function called profileChange to isolate problem
  + the problem was fixed by using the statement “global cur\_index” due to the scope of the variable being passed through the function
  + source: stackoverflow
* ended up making a fourth function called decideOutput() to determine whether there was a character/string outputted or a Keycode

Miscellaneous Problems/Comments

* Didn’t notice VCC wire was detached from board, causing unwanted button presses that I couldn’t figure out
* Python lists are nice b/c you can have different type of objects
* If you want to add another profile, make sure to update range in profileChange() and add a new profile color in handleColors()