

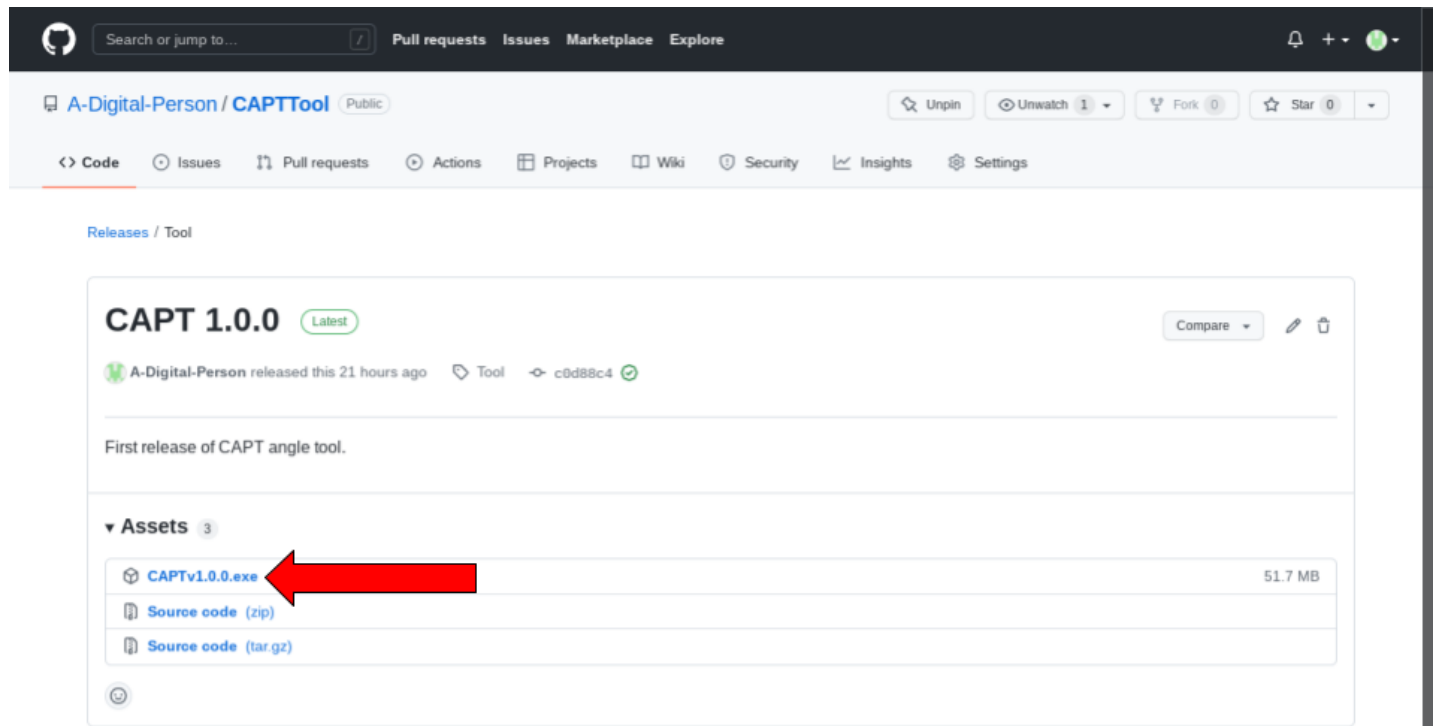
# CAPT TOOL

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## Setup CAPT

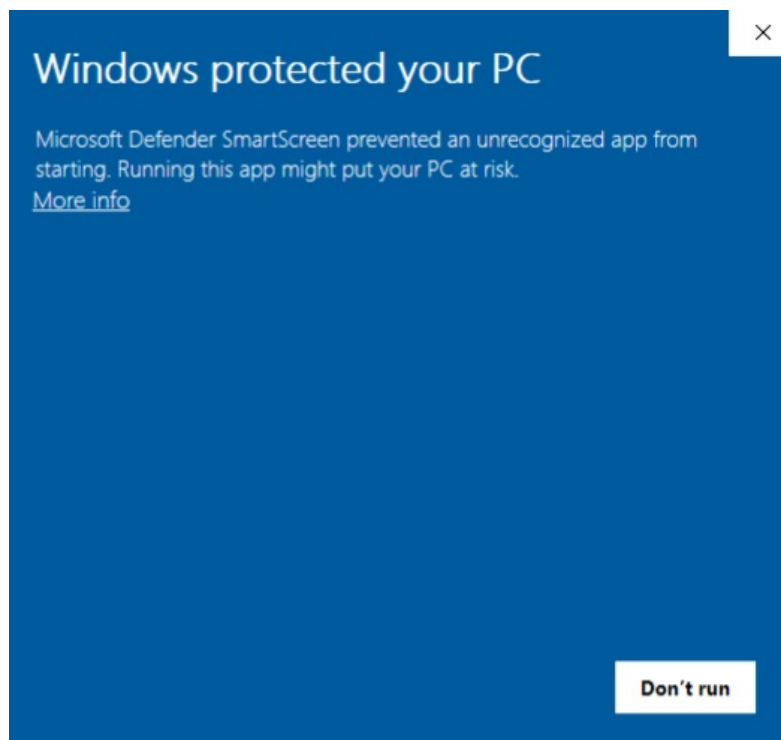
To use the CAPT tool you will need to [download the latest file](#).

Download CAPTv#.#.#.exe



The program will work in the directory you use it in. It is recommended to move the file to a separate folder in your downloads if you plan to use this program long term.

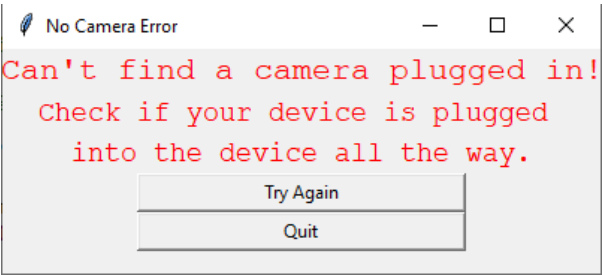
Once the file is in the directory/folder desired, then the program can be run. The Windows system may preventing the program from running with a warning window. Click *More info* and then click run.



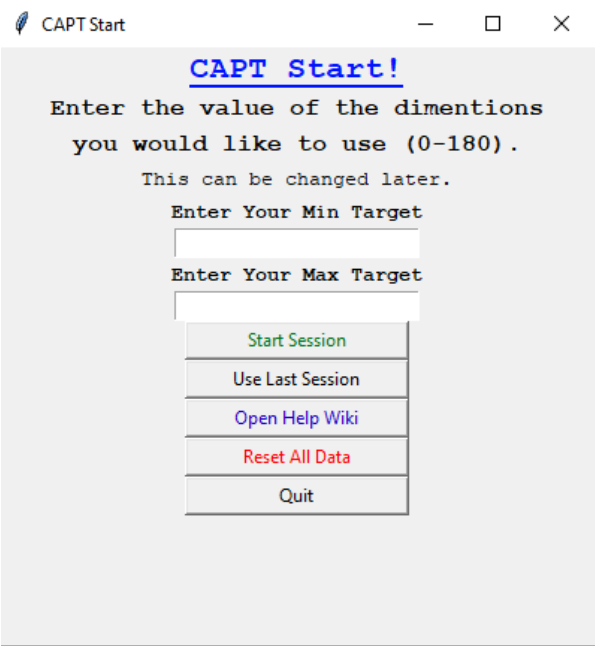
# Using the Tool

After running the program, one of two different windows will appear. The first window is a welcome screen. The second warns that the webcam is not plugged in correctly.

Check that your camera is plugged in correctly. Click the *Try again* button when the webcam is fixed. If the program continues to show the warning screen, your webcam may not be supported. Also, try changing ports.



When the welcome window is reached, input the minimum and maximum target angles in the corresponding text boxes. This number must be an integer from 0-90. If you have used the tool before then you can just click *Use Last Session* to load in the numbers from the last session. (If this does not work you may need to [reset all data](#).)



## Adjusting the Colors

The tracking device colors are preset for the program, but may require adjusting.

The easiest way to adjust the tracking device colors is to isolate the CTRL frames by disabling the masks on the other color CTRL frames.

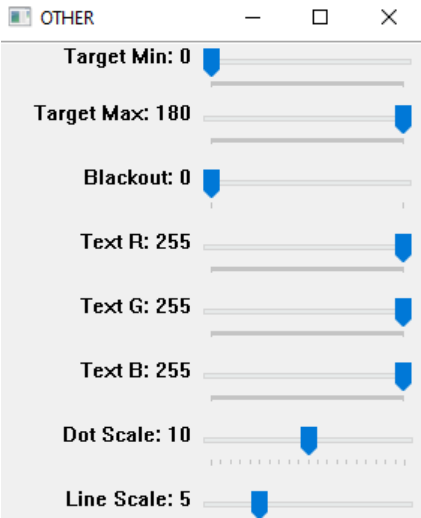


The mask settings are set to 0 for off and 1 for on.

The colors use HSV color codes. The H (hue) values can range from 0-180, and the S (saturation) and V (value) values can range from 0-255. Adjust the trackbars until each tracking device is shown on the masks window. This may take some time.

## Other Options

The other options menu is used to set things like the angle limits, blackout, text color (in RGB), and scales of lines and dots.



The target minimum and maximums can be used to quickly change the lower and upper angle limits if you desire to change the first input. The range is 0-90.

The blackout setting will enable and disable camera input for the mask frame. It will leave the lines and tracking devices for any enabled CTRL colors. This will disable whenever you change the mask settings on the CTRL frames. When the trackbar is set to 0, the blackout is off. 1 is on.

The text sliders change the color of the on screen text. This can be used if the text is hard to read due to the color. The color uses RGB values and has a range of 0-255 for each slider.

The tracking device dot and line scale sliders are used to change the size of the dots and the lines connecting the dots. The dot scale range is 0-20 and the line scale range is 1-20.

## Alerts

When using the tool, a lower tone will sound as an alert for going under the minimum angle value. A higher tone alerts going over the maximum value. Text will also appear on screen to alert going past the limits.

The timer shows how long the program has been running. The timer can be reset by pressing the *R* key.

## Stopping the Program

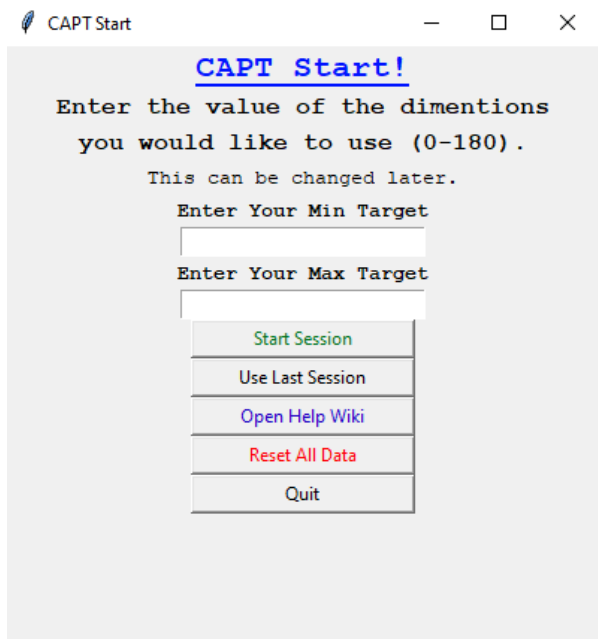
When you are done using the program, press the *Esc* key to stop and close all windows. This will also save the angle data to the data folder and a log to the logs folder. The angle data file is saved per second and timestamped.

The next time the program is ran, it will use the previous color HSV values for easier use.

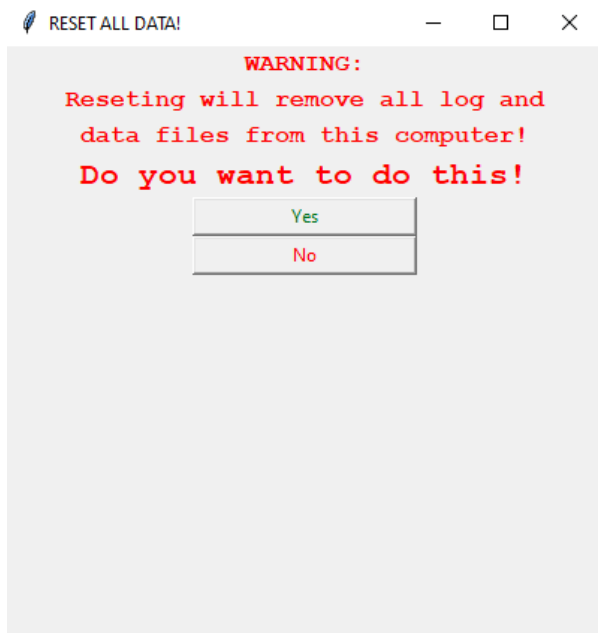
## Resetting Everything

WARNING: This is irreversible.

If you would like to reset all data, open the program and click the *Reset All Data* button.



After clicking, the program will ask you to confirm your decision.



Clicking yes will remove all data for trackbars and log files. It will leave data files in the data folder, as this data does not affect the program.

The program will restart when everything is reset.