MAKING A POLLINATOR PHONE CAMERA TRAP

For this project will need a laptop and iPhone with macro lens such as the Ztylus revolver, as well as a tripod. You will also need a wireless connection outside, and some flowers with pollinators!

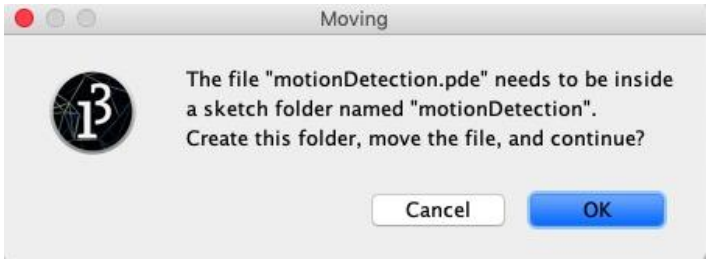
- On the iPhone download EpocCam and follow installation procedure to use iPhone as a webcam on laptop.*

- Test connection between phone and laptop using Zoom or similar.

- Download Processing from https://processing.org/ and install.

- Download the phoneCameraTrap code from my Github : https://github.com/samtreesandbushes/PollinatorProjects

- Run the code in Processing and click OK at the prompt



- Check connection with phone functional.
  It should be triggered by movement in front of the camera, taking a screenshot which will be saved to the same folder in which you have saved the code.

NOTES ON USE:

Attach flower to bean pole or similar to prevent movement of flower if windy.

Further control the sensitivity of the motion capture in the code, at line 113 by just editing the value 15 to something higher or lower (use higher values if you want it to be less sensitive)

```
112   // trigger a frame grab when greater than certain amount of motion
113   if (abs(lerpXstored-lerpX) > 15) {
```

You can control the number of images it takes follow motion detection using Y.

```
119   // How often do you want it to snap photos? e.g. % 10 is every ten frames... % 20 every 20, etc
120   if (camCount % 2 == 0) {
121     println("camCount divisible by ten! =", camCount);
122     saveFrame();
123   }
```

If fully functional and you wish to deploy, buy the EpocCam app (its not expensive) this will give you full resolution captures.

**Note also that DSLRs, Android phones or any camera which can be used as a webcam can also be integrated and used with the same script.*