Requirements

* T2T package (talk2tobii)
  + <http://psy.ck.sissa.it/t2t/About_T2T.html>
  + The T2T package includes a more modern version of the talk2tobii.mex files that allow Matlab (tested) or Octave (not tested) to communicate with Tobii Eye Trackers (T60, T120, 1750, and x50 models)
* Mac OS X (10.5 or above) or Linux operating system
  + tested with version Max OS X Leopard 10.6
* Matlab or Octave – tested with Matlab version R2010a (32 bit) for Mac
  + Currently, PTB-3 does not operate with 64-bit versions of Matlab
* Psychophysics Toolbox (PTB)
  + <http://psychtoolbox.org/HomePage>
  + tested with version PTB-3
* Programming Skills

Basic Set-up

* On the device in the Fuqua B-lab, connect the Ethernet and VGA or DVI cables that run from Tobii into the Mac that will be running the experiment.
  + When I connected the Ethernet cable successfully (without the Linksys-D box), I heard Tobii emit two beeps of rising pitch. When I disconnected, I heard two beeps of decreasing pitch.
* You will need to know the IP Address and Port code to communicate with Tobii.
  + From <http://smartt.wikidot.com/smart-t-details>
    - For older versions where the TET server was on a PC, the IP address is that of the PC hosting the TET server
    - For newer models (T60, T60XL etc), the address is that of the on-board TET server. To get this address:
      * Connect to the on-board TET server by connecting your Mac to the eye tracker with a LAN cable - make sure it's a [crossover cable](http://en.wikipedia.org/wiki/Ethernet_crossover_cable)
      * Look up the ethernet "name" of the TET server on the back of the Tobii. This is the product code, and looks something like XL060-9600037
      * Open up Terminal on the Mac
      * Ping the TET server with the name read off the back of the Tobii, like this: ping XL060-9600037.local.
      * If the ping is successful, you should see the IP address
  + When I did this, I used the command

ping XL060-01500128.local

* + and received output like this

PING xl060-01500128.local (169.254.7.31): 56 data bytes

64 bytes from 169.254.7.31: icmp\_seq=0 ttl=64 time=1.241 ms

64 bytes from 169.254.7.31: icmp\_seq=1 ttl=64 time=0.747 ms

…

* + Thus,
    - IP Address: 169.254.7.31
    - Port Code: 4455 (I found this specified somewhere online, so I don’t think it is unique to each device)

Refer to the Talk2tobii manual on how to use the Talk2tobii functions.