

## How to Install Tiny OS

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Here is a guide to help you to prepare for Programming tasks

1. Download and install an image viewer
  - a. for windows and linux users: [vmware player](#).
  - b. for mac users: [virtualbox](#)
2. Download [tinyos image](#)
  - a. guide for windows and linux users : [Xubuntos on vmware](#)
  - b. guide for mac users: [Xubuntos on virtualBox](#)
3. [optional] Install TinyOs directly:
  - a. guide for Ubuntu users:  
<http://www.electronicspub.com/article/28/TinyOS-installation-guide-on-Ubuntu.html>
  - b. guide for mac users(a bit advanced):  
<http://olafland.wordpress.com/2012/06/25/tinyos-on-mac-os-x-10-7-lion/>

## How to run a test application

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Now we want to connect a sensor node and run a test application

1. Connect the motes to the USB port and activate them. To connect to motes, you will have to tell the virtual machine that you would like it to recognize them. Once you have your motes connected and you have started XubunTOS, you can select which ones you would like to connect to. They should be listed at the top of the screen, with depressed buttons indicating a connection, and undeprssed buttons indicating that no connection has been made. You may connect or disconnect them as you wish.
2. Go to test folder by typing following line in the Terminal environment  
`$ cd /opt/tinyos-2.1.0/apps/Blink`
3. Test if the motes are connected by following line  
`$ motelist`
4. Make and install the Blink app on the mote by following code  
`$ make tmote install`  
Now your mote should blink!!!

