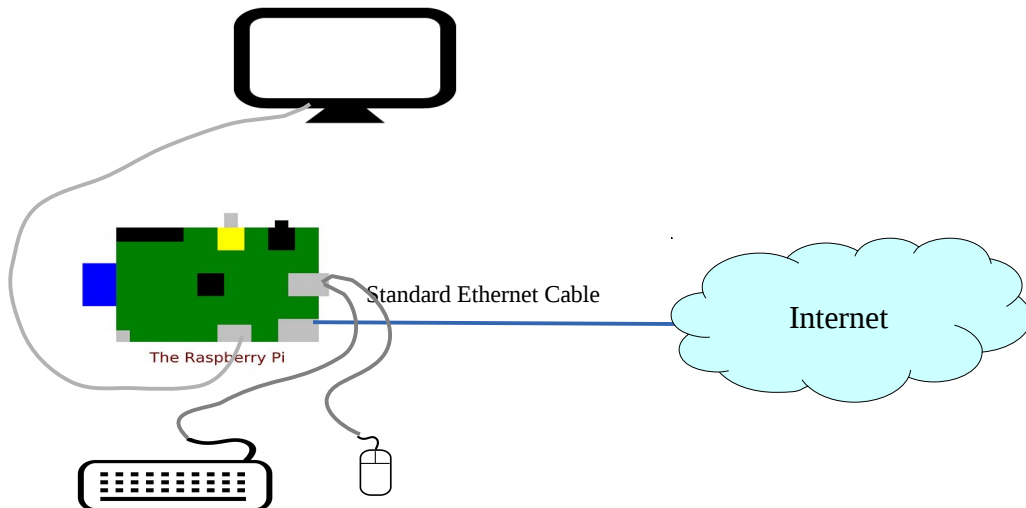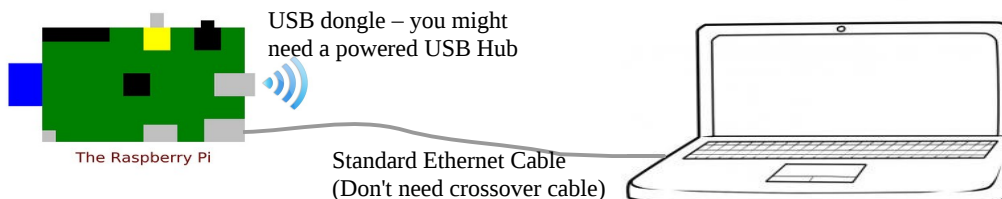# Three configurations of Raspberry Pi setup with Internet access
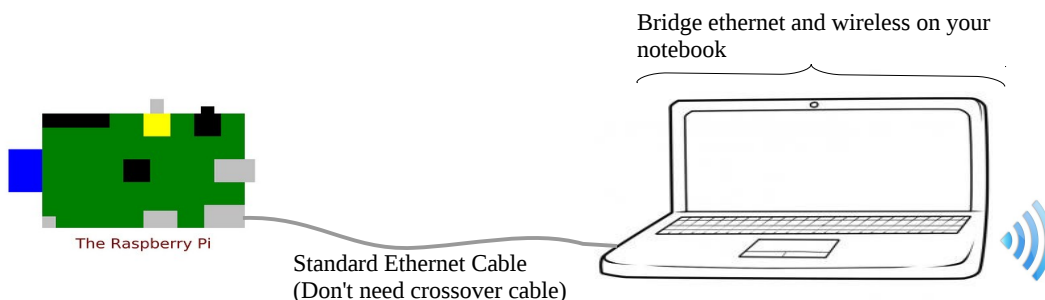
1. Easiest, needs dedicated monitor, keyboard, mouse and wired Ethernet connection

Standard Ethernet Cable

Internet

The Raspberry Pi

2. Direct Ethernet connection to Notebook, and a USB dongle for Wi-Fi access. Needs some work to setup (See http://pihw.wordpress.com/guides/direct-network-connection/).

USB dongle – you might
need a powered USB Hub

The Raspberry Pi

Standard Ethernet Cable
(Don't need crossover cable)

3. Direct Ethernet connection to Notebook. The Pi can use the Notebook's Wi-Fi if you can bridge the two network interfaces on the Notebook. Harder to setup.

Bridge ethernet and wireless on your
notebook

The Raspberry Pi

Standard Ethernet Cable
(Don't need crossover cable)

Start using your Pi

Assuming Raspian Distribution is installed -

boot Messages – take a look at them
     dmesg command
     /var/log/messages file
raspi-config – basic configurations
startx – will start lxde, a light-weight X-window environment
     Check out Scratch, it is fun!
Package management system – apt
     Different package management systems (yum, pacman etc.)
     Package repositories
sudo command
     /etc/sudoers file
updating your system
     sudo apt-get update
     sudo apt-get upgrade
     (and go get some coffee)
Check what packages are installed
Check what packages are available
Install a package
     Checkout these:
          gpm (mouse in CL mode)
          lighttpd (lightweight http server)
          links (command line http client)
          ipython (nice python environment in CL mode)
          sqlite (simple database engine that supports some SQL)
Check the files installed as part of a package
          What files were installed as part of gpm installation?