

Raspberry Pi

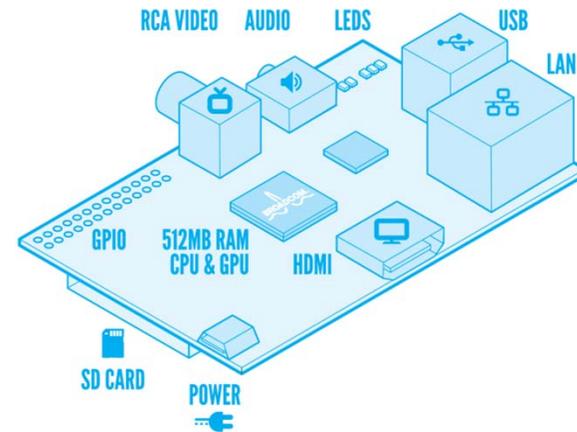
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Hardware Specs

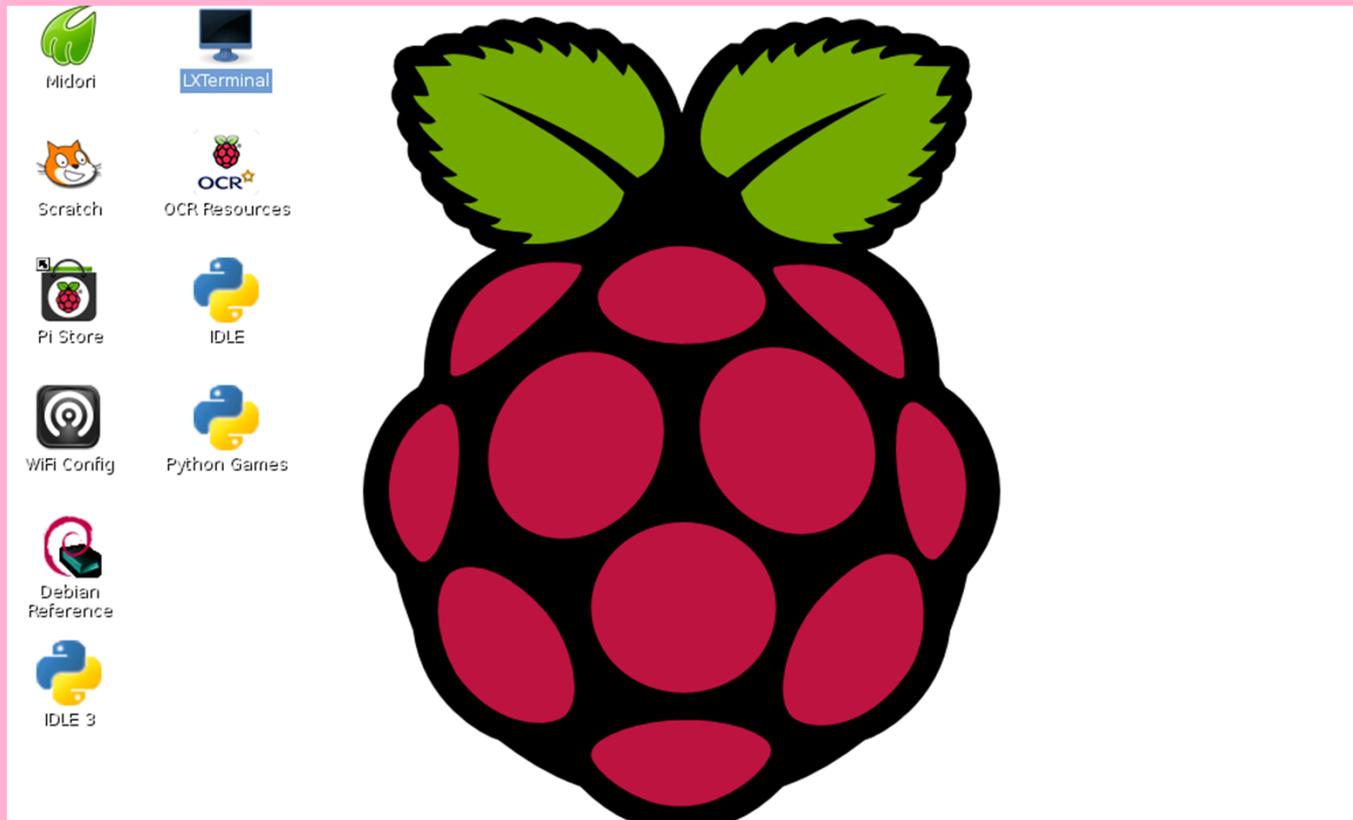
- 2 USB ports
- Ethernet port
- HDMI port
- SD card port
- Micro-USB power port
- Audio/video jacks

RASPBERRY PI MODEL B



Software Specs

- Debian Wheezy operating system
 - Linux 3.2 based
 - Python, default programming language



Initial Thoughts/Goals

- Create a series of LEDs that respond to an input from a stereo
 - As frequency increases, luminosity of LEDs can increase
 - Particular LED lights can be designated for bass
- Create a camera (via use of a USB webcam) that takes pictures of passer-bys
 - Pictures taken in response to motion
 - Webcam pictures can be based on an internet webcam application that allows for fun faces and backgrounds
- Another idea which, for the time being, shall not be mentioned 😊

“There is no failure except in no longer trying.” – Elbert Hubbard



Final Project

- Incorporating bits and pieces from our various initial goals:
 - Remotely SSH-ing into the Raspberry Pi using an Android cell phone
 - Execute a program that plays an MP3 file and LED lights in a particular sequence
- Key Attributes of Project:
 - Use of remote SSH
 - Use of Raspberry Pi's internet functionality
 - Incorporation of external hardware (speakers, breadboard)