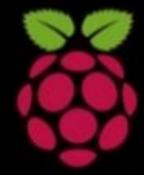
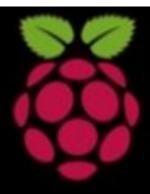


Ms.T.Kavitha,
Assistant Professor (CSE)



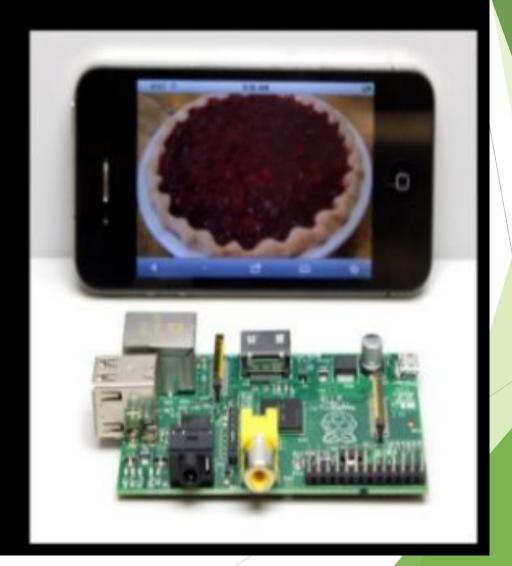
Introduction

- The Raspberry Pi is a credit-card sized computer
- It can be plugged into your TV and a keyboard, and can be used for many of the things that your average desktop does - spreadsheets, word-processing, games and it also plays high-definition video.

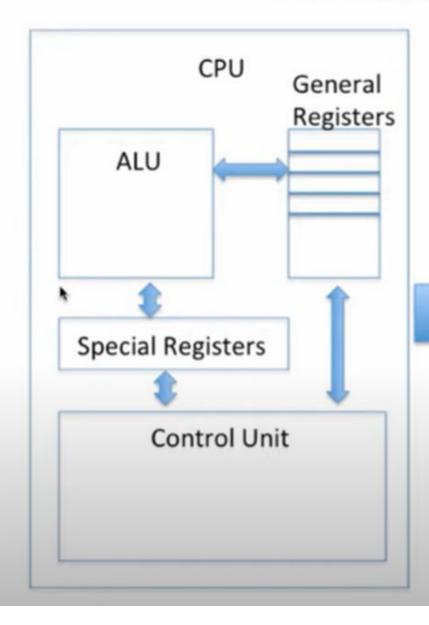


Introduction

 measuring approximately 9cm x 5.5cm



Von Neumann Architecture



0 1 Memory (RAM) 2 3 ... 536,870,911

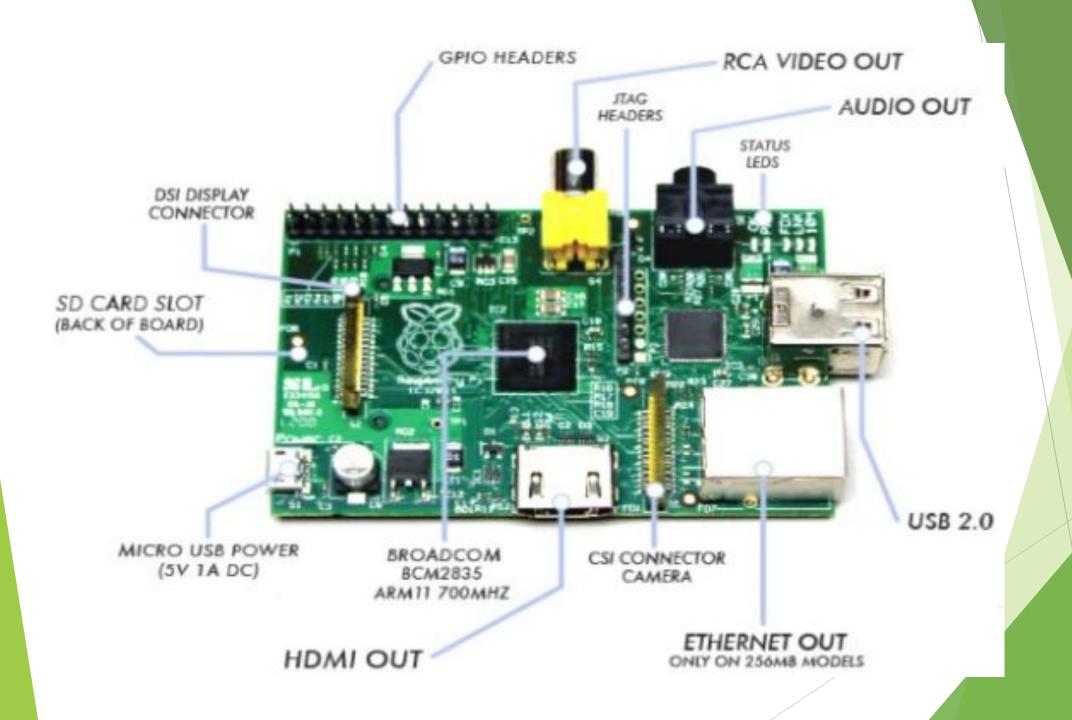
System Bus

Peripherals

Graphics Processor

UART

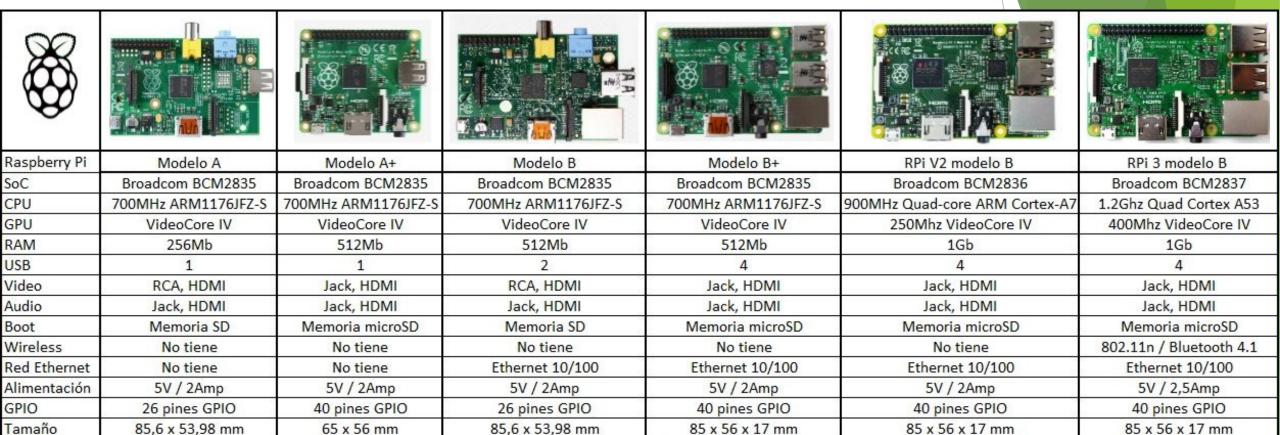
Timer



Raspberry Pi 2 Model B Stats

- 900MHz quad-core ARM Cortex-A7 CPU
- VideoCore IV 3D graphics core
- 1GB RAM
- 4 USB ports
- Full HDMI port
- Ethernet port
- Micro SD card slot
- Combined 3.5mm audio jack and composite video
- Camera and display interface
- 40 General Purpose Input / Output pins (GPIOs)





Where is the power button?

- The Raspberry Pi doesn't have a power button. It boots up as soon as you plug in the power supply.
- If you've completed all the previous steps, plug in the power supply to boot the Raspberry Pi.



Raspberry Pi Components

- Power Supply Micro USB, 400 mA, 5V
- Screen The screen is a monitor with HDMI or DVI input. It can be connected with VGA with HDMI to VGA adapter.
- Keyboard or Mouse Lower-power USB peripherals with less than 0.1 A power are suitable to connect with Raspberry Pi
- SD Card Class 4, with minimum 8 GB of storage capability. Operating systems like NOOBS and Raspbian are most commonly used operating systems to install on an SD card.

