

# Raspberry Pi

Pi 2 Model B



# What is a Raspberry Pi?

- A small, inexpensive computer the size of a deck of playing cards
- Uses your old computer's monitor, keyboard and mouse
- Intended as an educational tool to teach computer and computing fundamentals
- Keeps the learner off the family computer

# Pi 2 Board Hardware

- 1 GB RAM
- 900 GHz Quad Core CPU
- Ethernet
- 4 USB 2 PORTS
- HDMI
- STEREO Mini-plug
- Micro SD (4GB-32GB+) for OpSys & data
- 40 pin header for electronics projects



# What else is needed?

- Monitor, Keyboard & Mouse
- Power supply like your cell phone or tablet
- **\$81** at Amazon got me
  - Pi, Plastic case, Power supply,
  - USB WiFi & 32GB SD card

# Software

## in Raspian

- Raspian (Default - version of Debian Linux)
  - Other OpSys available including Windows 10
- Libre Office Suite
- Program Languages (Python, Sonic Pi, Scratch, Wolfram, etc.)
- Web Browser, Email, Text Editor, PDF viewer, Image viewer, File Manager, Terminal, Calculator, Music and Video Players, etc.
- Games

# What can Pi do?

- Browse the Internet



- E-mail



- Office Applications (Libre Office suite)



- Play Music & Videos





- Display Photos

- Print



- Connect USB devices (e.g. WiFi, Flash Drives, Webcams, etc.)

# What else can Pi do?

- Develop Electronics projects 
- Create programs in various languages 
- Control devices like cameras, lights, 3D printers
- Lots more!



# Raspberry PI

## Questions & Demo