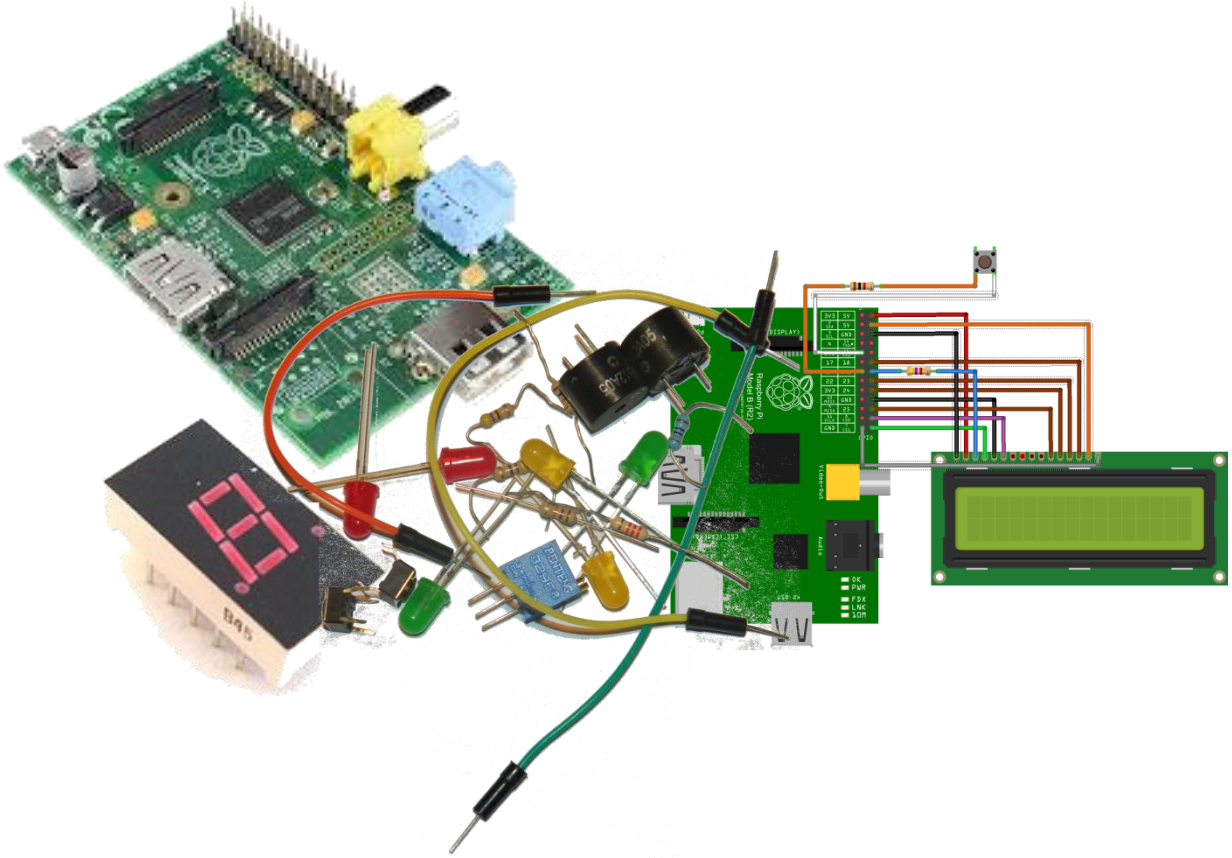
Raspberry Pi and Electronics



Raspberry Pi

The **Raspberry Pi** is a series of credit card-sized single-board computers developed by the Raspberry Pi Foundation to promote the teaching of basic computer science.

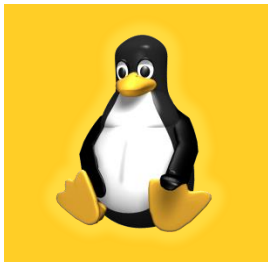
Raspberry Pi advantages

Access to loads of technology due to Linux operating system

Easy to build hardware/physical computing projects due to GPIO pins

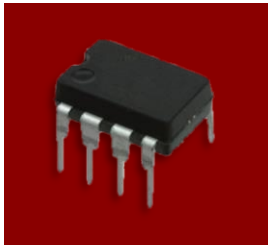
Breakable if you mess up the software you just format the SD card and start again.
If you damage the Raspberry itself it only costs around €35 to replace

Technologies



The Linux Operating System is a free and open source operating system similar to Microsoft Windows with loads of software also available for free. We will be using Raspbian OS which is a version of Linux developed for the Raspberry Pi.

The Python Programming Language is a widely used general purpose programming language. It is designed to be easy to learn and is the preferred language for the Raspberry Pi.



We will be using a range of Electronics Components such as LEDs, LCD Displays and Ultrasonic Distance Sensors.

Our Plan for This Year

Between now and Christmas we will build and run some basic projects using some components I have gathered together.

Between Christmas and the end of the year everybody will work on big individual projects which hopefully we will enter in the Coolest Projects Competition.

Coolest Projects Competition

The Coolest Projects Awards was created to encourage, support and showcase the creativity within the CoderDojo community. With Coolest Projects, young people can make their most exciting ideas a reality.

Last June we entered two projects from the Raspberry Pi Group. Both entries were runners up in the Hardware category.