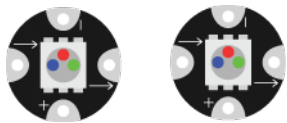


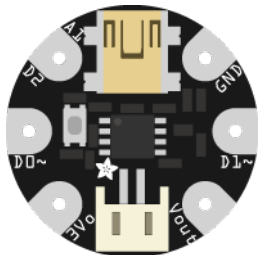
Components

As part of your workshop on wearables you'll learn how to make a simple circuit to control the colour of some small lights. Before you begin it's a good idea to familiarise yourself with the components that you'll be using.

There are four different components that you will need. Read the description for each of them to understand what they do.



Neo-Pixel LEDs: LEDs are small components that use electricity to create light. The LEDs that you will be using contain three different colours, red, green and blue. These three colours can be combined in different strengths to make the LED light up in any colour that you want.

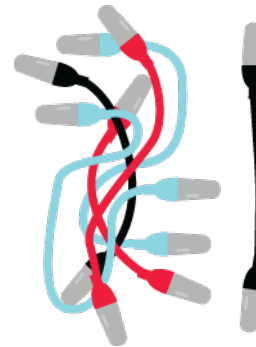


Gemma: The Gemma board is a tiny micro-controller. It is a type of small, slow computer that uses programming to control other electronics. Programs are a set of instructions that allow you to control what a computer does.

The pads on the Gemma board are designed so that they can be sewn onto fabric with a special thread that conducts electricity.



Battery: A battery is used to power an electronic circuit. They store electricity. Each battery has a positive and negative side. When the positive and negative side are joined using a circuit the electricity is released.



Cables with Alligator Clips: Cables are used to connect different components together. These cables have alligator clips, which means they are easy to attach to other components. They are easy to disconnect so that your circuits don't have to be permanent and mistakes can easily be corrected.

