

A decorative border shaped like a rounded rectangle, composed of a continuous line representing a circuit. Various electronic symbols are placed along this line: a battery symbol (two circles, one with a minus sign, one with a plus sign) at the top left; a diode symbol (triangle pointing right with two arrows) at the top center; another diode symbol at the top right; a motor symbol (a circle with an 'M' inside) on the left side; a resistor symbol (a rectangle) on the left side; a diode symbol at the bottom left; an open switch symbol (two circles connected by a diagonal line) at the bottom center; and a diode symbol at the bottom right. On the right side, there are three additional symbols: a circle with two vertical lines inside, a diode symbol pointing left, and another diode symbol pointing left.

Congratulations to

for developing

computer coding and crafting skills

with

Glow Your Own 2025

if OXFORD SCIENCE
+ IDEAS FESTIVAL

Run by IF Oxford and supported by
STFC, Rutherford Appleton Laboratory, UKAEA,
Oxford North, Fusion Arts and Oxford City Council

Glow Your Own is a workshop series for learning how to use computer coding and sensors in a circuit to control LEDs and motors using Arduinos and Tinkercad, combining art and engineering

The six 90-minute sessions:

Workshop 1 introduced the Arduino to build and code a simple virtual LED circuit

Workshop 2 built physical circuits to activate a sequence of LEDs with code uploaded to an Arduino

Workshop 3 introduced a button to create electronic devices that can be turned on and off

Workshop 4 showed how to install and operate a photoresistor, introducing remote control, and how to monitor signals in a circuit

Workshop 5 explored creative ideas and coding sequences to build portable lanterns

Workshop 6 incorporated a servo motor to a circuit to add robotic movement to a lantern

How-to videos and worksheets are all available on-demand at:

if-oxford.com/gyo