

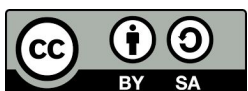


TURNING AN LED ON



EduBlocks

Making the transition from
Scratch to Python easier



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OBJECTIVE

We are going to use a Raspberry Pi and EduBlocks to turn an LED on.

GETTING STARTED

Once the Raspberry Pi has booted up. Double click on the EduBlocks logo on the desktop.



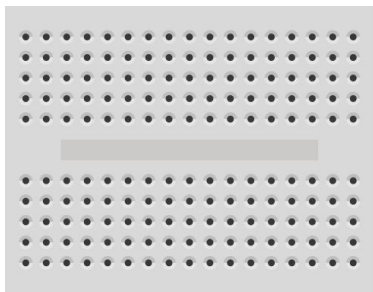
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BUILDING THE CIRCUIT

You will need the following electronic components to create the circuit.



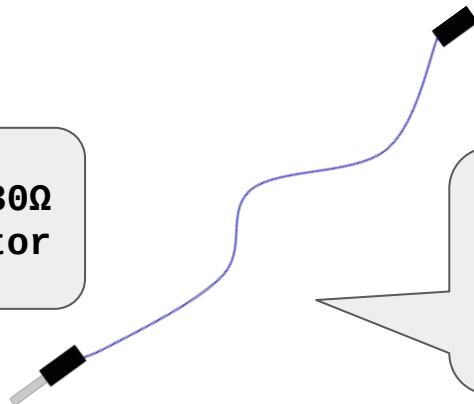
1 x
Breadboard



1 x LED



1 x 330 Ω
resistor



2 x Male to
Female
Jumper wires



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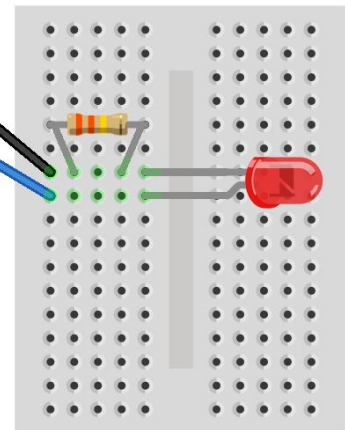
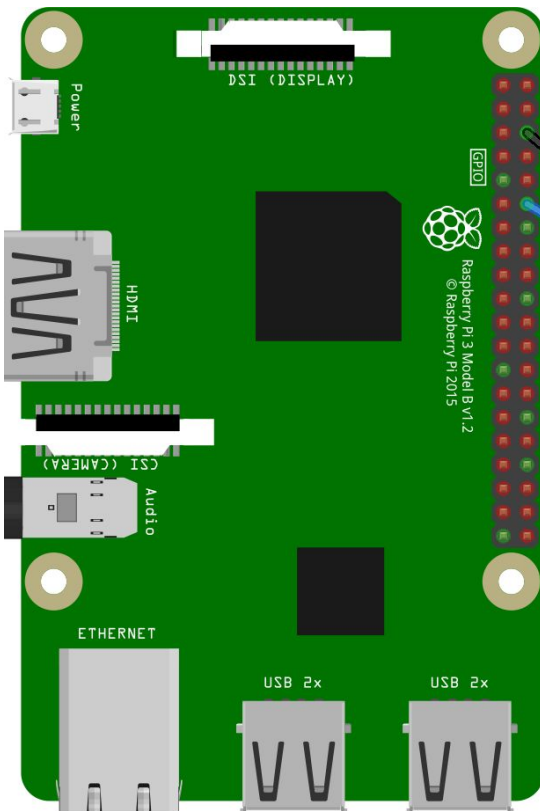


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BUILDING THE CIRCUIT



LEDs have a positive and negative leg. The longer leg is the positive leg. This is shown as the bent leg here.



Negative = GND
Positive = pin 18



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CODE

The yellow code blocks can be found in `gpiozero` and `General` and the red code blocks can be found in `gpiozero` -> `Outputs` -> `LED`

```
from gpiozero import *  
led = LED( 18 )  
led . on ( )
```

- The first code block imports the GPIO library.
- The second code block sets pin 18 up to use with the LED.
- The third code block tells the Pi to turn the LED on.



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RUNNING THE CODE

To run your code click on the run button at the top of the screen.

You should now see the LED turn on. If the LED does not turn on check your code and the wiring in the circuit.

CHALLENGE

Try Turning the LED off.

HINT: change the third code block.