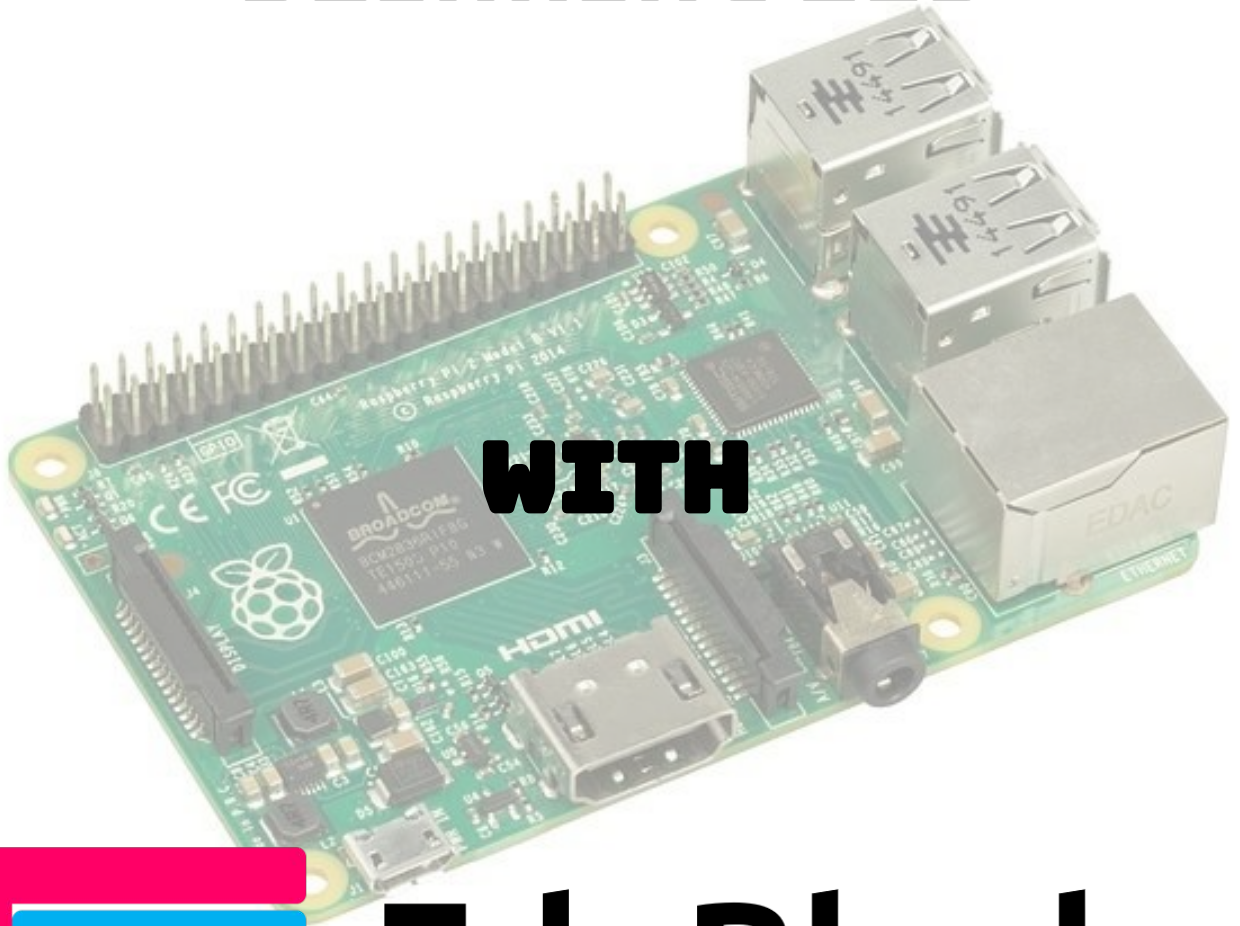


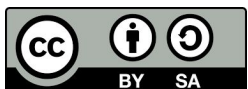


# BLINKING LED



# EduBlocks

Making the transition from  
Scratch to Python easier



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# BLINKING LED



**PAGE 2**

## OBJECTIVE

We are going to use a Raspberry Pi and EduBlocks to make an LED blink on and off.

## GETTING STARTED

Open EduBlocks by double-clicking on the Desktop Icon.



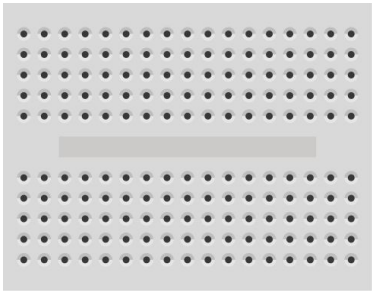
# BLINKING LED



PAGE 3

## BUILDING THE CIRCUIT

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



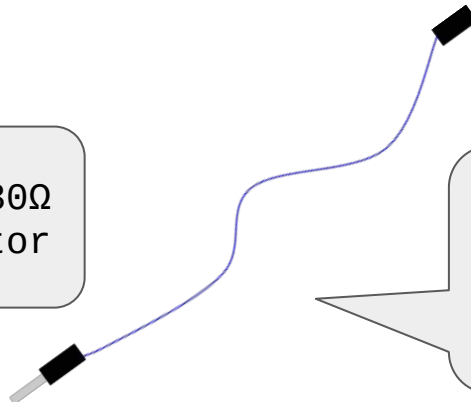
1 x  
Breadboard



1 x LED



1 x 330 $\Omega$   
resistor



2 x Male to  
Female  
Jumper wires



# BLINKING LED

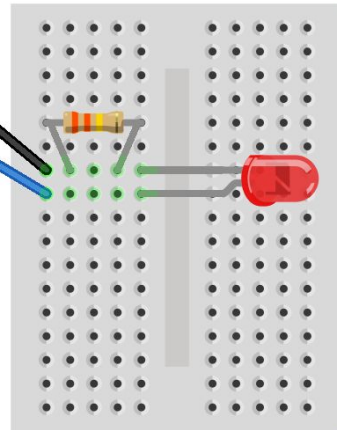
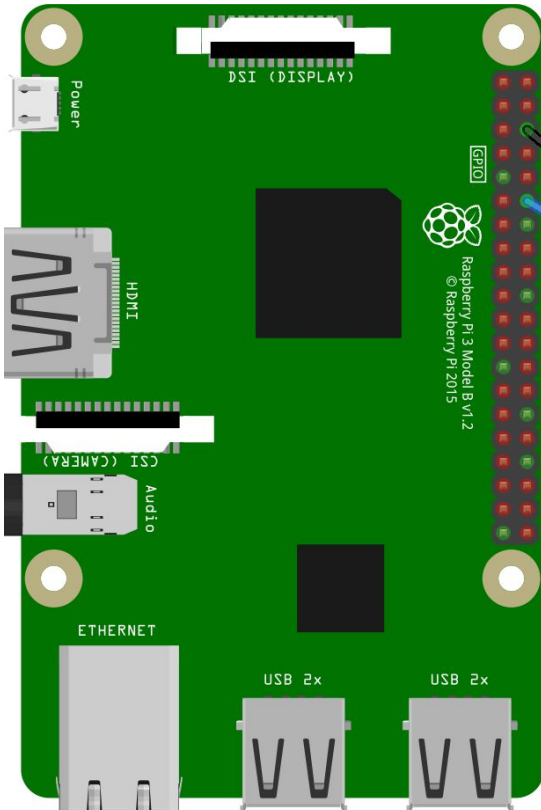


PAGE 4

## 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



# BLINKING LED



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## CODE

The yellow blocks can be found in gpiozero -> General.

The red blocks can be found in gpiozero -> outputs -> LED

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

- The first code block imports the GPIOzero library.
- The second code block sets the LED up as an output on pin 18 on the Raspberry Pi.
- The third code block tells the LED to blink on and off.



# BLINKING LED



**PAGE 6**

## RUNNING THE CODE

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

You should see the LED blink on and off. If not check your code and the wiring of the circuit is correct.

## CHALLENGE

Why not try and add a second LED.