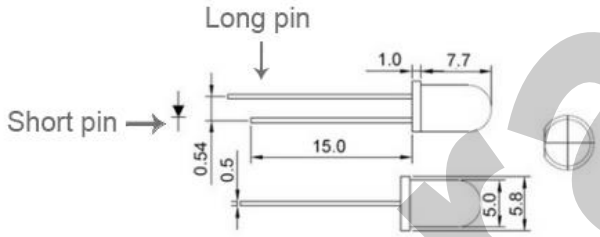
Blink

Overview

This example shows the simplest thing you can do with an RPI to see physical output: it blinks an LED.

Specification



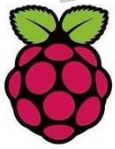
Pin definition

LED

Long pin -> VCC

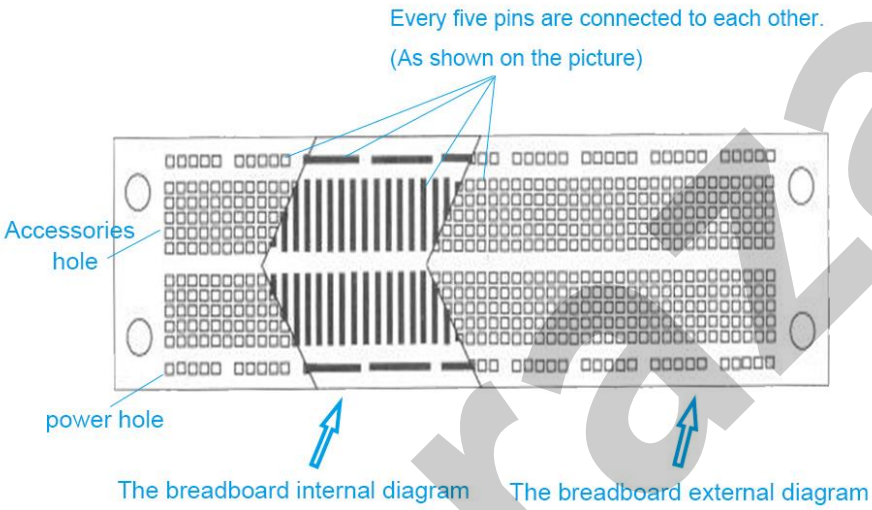
Short pin -> GND

Hardware required

Material diagram	Material name	Number
	LED	1
	220/330Ω resistor	1
	Raspberry Pi Board	1
	T-Cobbler Plus	1
	40P GPIO Cable	1

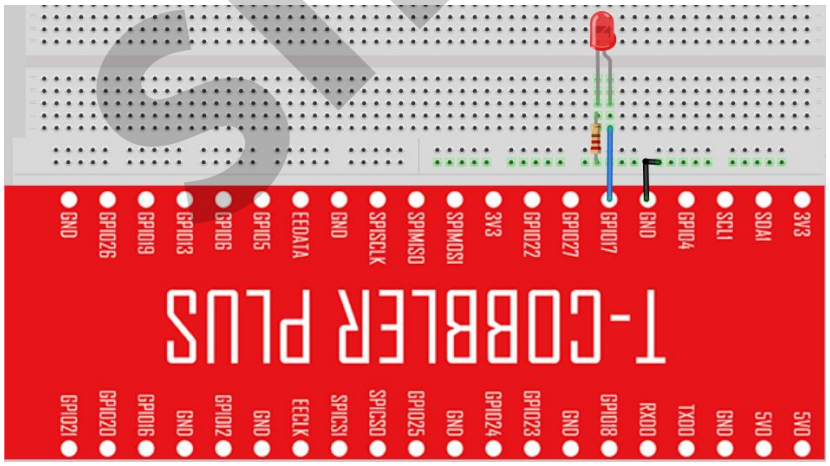
	Breadboard	1
	Jumper wires	Several

Bread board schematic



All the tie points (indicated in the picture) of the different colors are connected together.

Connection diagram



Connection:

RPI	LED
GPIO17	Long pin
GND	Short pin

Sample code

Note: sample code under the **Sample code** folder

```
#include <wiringPi.h>
#include <stdio.h>
int main(void)
{
   printf( "Welcome to Smraza\n");
   printf( "Raspberry Pi blink program\n" );
   printf( "Press Ctrl+C to exit\n" );
   wiringPiSetup() ;
   pinMode (0, OUTPUT) ;
   for(;;)
   {
      digitalWrite(0, HIGH) ; delay (1000) ;
      digitalWrite(0,    LOW) ; delay (1000) ;
   }
}
```

Compiling : gcc -Wall -o blink blink.c -lwiringPi

Run: sudo ./blink

Tips: Press “Ctrl+C” to exit

Application effect

Turns on an LED on for one second, then off for one second, repeatedly.