digitalRead()

Description

Reads the value from a specified digital pin, either HIGH (//www.arduino.cc/en/Reference/Constants) or LOW (//www.arduino.cc/en/Reference/Constants).

Syntax

digitalRead(pin)

Parameters

pin: the number of the digital pin you want to read (*int*)

Returns

HIGH (//www.arduino.cc/en/Reference/Constants) or LOW (//www.arduino.cc/en/Reference/Constants)

Example

Sets pin 13 to the same value as pin 7, declared as an input.

```
int ledPin = 13; // LED connected to digital pin 13
int inPin = 7;   // pushbutton connected to digital pin 7
int val = 0;     // variable to store the read value

void setup()
{
  pinMode(ledPin, OUTPUT);      // sets the digital pin 13 as output
  pinMode(inPin, INPUT);      // sets the digital pin 7 as input
}

void loop()
{
  val = digitalRead(inPin);   // read the input pin
  digitalWrite(ledPin, val);    // sets the LED to the button's value
}
```

[Get Code] (//www.arduino.cc/en/Reference/DigitalRead?action=sourceblock&num=1)

Note

If the pin isn't connected to anything, digitalRead() can return either HIGH or LOW (and this can change randomly).

The analog input pins can be used as digital pins, referred to as A0, A1, etc.

See also

- pinMode (//www.arduino.cc/en/Reference/PinMode)()
- digitalWrite (//www.arduino.cc/en/Reference/DigitalWrite)()
- Tutorial: Digital Pins (//www.arduino.cc/en/Tutorial/DigitalPins)

Reference Home (//www.arduino.cc/en/Reference/HomePage)

Corrections, suggestions, and new documentation should be posted to the Forum (http://arduino.cc/forum/index.php/board,23.0.html).

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