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Last Revision: 2019/06/25

Last Build: 2021/12/04

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digitalWrite()

[Digital I/O]

Description

Write a HIGH or a LOW value to a digital pin.

If the pin has been configured as an OUTPUT with pinMode(), its volta will be set to the corresponding value: 5V (or 3.3V on 3.3V boards) HIGH, OV (ground) for LOW.

If the pin is configured as an INPUT, digitalWrite() will enable (HIGH disable (LOW) the internal pullup on the input pin. It is recommende set the pinMode() to INPUT_PULLUP to enable the internal pull-up resistor. See the Digital Pins tutorial for more information.

If you do not set the pinMode() to OUTPUT, and connect an LED to a pwhen calling digitalWrite(HIGH), the LED may appear dim. Without explicitly setting pinMode(), digitalWrite() will have enabled the internal pull-up resistor, which acts like a large current-limiting resistor.

Syntax

digitalWrite(pin, value)

Parameters

pin: the Arduino pin number.

value: HIGH Or LOW.

Returns

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The code makes the digital pin 13 an OUTPUT and toggles it by alternating between HIGH and LOW at one second pace.

Notes and Warnings

The analog input pins can be used as digital pins, referred to as A0 etc. The exception is the Arduino Nano, Pro Mini, and Mini's A6 and pins, which can only be used as analog inputs.

See also

EXAMPLE Description of the digital pins

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