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Reference Language (//www.arduino.cc/en/Reference/HomePage) | Libraries (//www.arduino.cc/en/Reference/Libraries) | Comparison (//www.arduino.cc/en/Reference/Comparison) | Changes (//www.arduino.cc/en/Reference/Changes)

pinMode()

Description

Configures the specified pin to behave either as an input or an output. See the description of digital pins (//www.arduino.cc/en/Tutorial/DigitalPins) for details on the functionality of the pins.

As of Arduino 1.0.1, it is possible to enable the internal pullup resistors with the mode INPUT_PULLUP. Additionally, the INPUT mode explicitly disables the internal pullups.

Syntax

pinMode(pin, mode)

Parameters

pin: the number of the pin whose mode you wish to set

mode: INPUT (//www.arduino.cc/en/Reference/Constants), OUTPUT (//www.arduino.cc/en/Reference/Constants), or INPUT_PULLUP (//www.arduino.cc/en/Reference/Constants). (see the digital pins (//www.arduino.cc/en/Tutorial/DigitalPins) page for a more complete description of the functionality.)

Returns

None

Example

```
// LED connected to digital pin 13
int ledPin = 13:
void setup()
  pinMode(ledPin, OUTPUT);
                                // sets the digital pin as output
void loop()
  digitalWrite(ledPin, HIGH);
                                // sets the LED on
  delay(1000);
                                // waits for a second
  digitalWrite(ledPin, LOW);
                                // sets the LED off
                                // waits for a second
  delay(1000);
```

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

Note

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

See also

- constants (//www.arduino.cc/en/Reference/Constants)
- digitalWrite (//www.arduino.cc/en/Reference/DigitalWrite)()
- digitalRead (//www.arduino.cc/en/Reference/DigitalRead)()
- Tutorial: Description of the pins on an Arduino board (//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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