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redstone

Get and set redstone signals adjacent to this computer.

The **redstone** library exposes three "types" of redstone control:

- Binary input/output (**setOutput/getInput**): These simply check if a redstone wire has any input or output. A signal strength of 1 and 15 are treated the same.
- Analogue input/output (setAnalogOutput/getAnalogInput): These work with the actual signal strength of the redstone wired, from 0 to 15.
- Bundled cables (setBundledOutput/getBundledInput): These interact with "bundled" cables, such as those from Project:Red. These allow you to send 16 separate on/off signals. Each channel corresponds to a colour, with the first being colors.white and the last colors.black.

Whenever a redstone input changes, a **redstone** event will be fired. This may be used instead of repeativly polling.

This module may also be referred to as rs. For example, one may call rs.getSides() instead of getSides.

Usage

• Toggle the redstone signal above the computer every 0.5 seconds.

```
while true do
    redstone.setOutput("top", not redstone.getOutput("top"))
    sleep(∅.5)
end
```

Mimic a redstone comparator in subtraction mode.

os.pullEvent("redstone") -- Wait for a change to inputs.
end

getSides()	Returns a table containing the six sides of the computer.
setOutput(side, on)	Turn the redstone signal of a specific side on or off.
<pre>getOutput(side)</pre>	Get the current redstone output of a specific side.
getInput(side)	Get the current redstone input of a specific side.
setAnalogOutput(side, value)	Set the redstone signal strength for a specific side.
<pre>setAnalogueOutput(side, value)</pre>	Set the redstone signal strength for a specific side.
<pre>getAnalogOutput(side)</pre>	Get the redstone output signal strength for a specific side.
<pre>getAnalogueOutput(side)</pre>	Get the redstone output signal strength for a specific side.
<pre>getAnalogInput(side)</pre>	Get the redstone input signal strength for a specific side.
<pre>getAnalogueInput(side)</pre>	Get the redstone input signal strength for a specific side.
<pre>setBundledOutput(side, output)</pre>	Set the bundled cable output for a specific side.
<pre>getBundledOutput(side)</pre>	Get the bundled cable output for a specific side.
<pre>getBundledInput(side)</pre>	Get the bundled cable input for a specific side.
testBundledInput(side, mask)	Determine if a specific combination of colours are on for the given side.

§ getSides() [Source]

Returns a table containing the six sides of the computer. Namely, "top", "bottom", "left", "right", "front" and "back".

Returns

1. { **string...** } A table of valid sides.

Changes

• New in version 1.2

§ setOutput(side, on)

[Source]

Turn the redstone signal of a specific side on or off.

Parameters

- 1. side : **string** The side to set.
- 2. on: boolean Whether the redstone signal should be on or off. When on, a signal strength of 15 is emitted.

§ getOutput(side)

[Source]

Get the current redstone output of a specific side.

Parameters

1. side : string The side to get.

Returns

1. boolean Whether the redstone output is on or off.

See also

setOutput

§ getInput(side)

[Source]

Get the current redstone input of a specific side.

Parameters

1. side : **string** The side to get.

Returns

1. boolean Whether the redstone input is on or off.

§ setAnalogOutput(side, value)

[Source]

Set the redstone signal strength for a specific side.

Parameters

1. side : **string** The side to set.

2. value: number The signal strength between 0 and 15.

Throws

• If value is not between 0 and 15.

Changes

• New in version 1.51

§ setAnalogueOutput(side, value)

[Source]

Set the redstone signal strength for a specific side.

Parameters

1. side : **string** The side to set.

2. value: number The signal strength between 0 and 15.

Throws

• If value is not between 0 and 15.

Changes

New in version 1.51

§ getAnalogOutput(side)

[Source]

Get the redstone output signal strength for a specific side.

Parameters

1. side : **string** The side to get.

Returns

1. number The output signal strength, between 0 and 15.

See also

setAnalogOutput

Changes

New in version 1.51

§ getAnalogueOutput(side)

[Source]

Get the redstone output signal strength for a specific side.

Parameters

1. side : **string** The side to get.

Returns

1. number The output signal strength, between 0 and 15.

See also

• setAnalogOutput

Changes

• New in version 1.51

§ getAnalogInput(side)

[Source]

Get the redstone input signal strength for a specific side.

Parameters

1. side : **string** The side to get.

Returns

1. number The input signal strength, between 0 and 15.

Changes

New in version 1.51

§ getAnalogueInput(side)

[Source]

Get the redstone input signal strength for a specific side.

Parameters

1. side : string The side to get.

Returns

1. number The input signal strength, between 0 and 15.

Changes

New in version 1.51

§ setBundledOutput(side, output)

[Source]

Set the bundled cable output for a specific side.

Parameters

1. side : **string** The side to set.

2. output: number The colour bitmask to set.

See also

- colors.subtract For removing a colour from the bitmask.
- **colors.combine** For adding a color to the bitmask.

§ getBundledOutput(side)

[Source]

Get the bundled cable output for a specific side.

Parameters

1. side : string The side to get.

Returns

1. number The bundle cable's output.

§ getBundledInput(side)

[Source]

Get the bundled cable input for a specific side.

Parameters

1. side : string The side to get.

Returns

1. number The bundle cable's input.

See also

• testBundledInput To determine if a specific colour is set.

\$testBundledInput(side, mask)

[Source]

Determine if a specific combination of colours are on for the given side.

Parameters

side: string The side to test.
 mask: number The mask to test.

Returns

1. boolean If the colours are on.

Usage

• Check if **colors.white** and **colors.black** are on above this block.

See also

• getBundledInput

Last updated on 2025-07-06