





Simple light

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Simple light: Simple Light

	Description:	A simple switchable light through wire.
	Original Author:	User:Chronic
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	Notes:	-

Materials

1. A flat surface or prop.
2. A wire **Light** with the radiant flag checked.
3. A **Gate - Arithmetic, Multiply** chip.
4. A **Constant Value** for 255.
5. A wire **Button** set to toggle with on value 1 and off value 0.

Set-up

1. Place the wire **Light** on the prop or surface.
2. Place your **Gate - Arithmetic, Multiply** under the light.
3. Place your **Constant Value** next to the chip with the value 255.
4. Place a **Button** next to all of this.

Wiring

1. Select the Wire STOOL.
2. Left-click the light and then left-click on the chip. Right-click the light, left-click the light, and then left-click the chip. Right-click the light twice, left-click the light, and then left-click the chip.
3. Left-click the chip and then left-click the Constant Value. Right-click the chip, left-click the chip, and then left-click again on the Button.

You're finished! Press the button and watch as your new wire contraption lights up.

Explanation

The gate multiplies two things: the Constant Value and a variable (the button). When the variable is zero (the button is off) the gate multiplies 255 from the Constant Value and the off value of the button, 0. $255 * 0 = 0$ and therefore the light stays unlit. When the variable is one however, (button is on) the gate multiplies 255 and one. $255 * 1 = 255$ which tells the light to glow a bright white.

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