5–12V

TIP31

**Arduino /
Seeeduino /
RBBB**

1 2 3

↑

↓

8

1K Ω

1K Ω

TIP31 AG|C Transistor used as a switch

• The Arduino, Tip31, and LED(s) must share a common ground.

"By putting a small voltage and current on the Base (1) you allow
a larger current to flow from the Collector (2) to the Emitter (3)."
- p.99 of Physical Computing by Tom Igoe