**H-Bridge Motor Driver**

An **H-bridge** is an [electronic circuit](https://en.wikipedia.org/wiki/Electronic_circuit) that switches the polarity of a voltage applied to a load. These circuits are often used in [robotics](https://en.wikipedia.org/wiki/Robotics) and other applications to allow DC motors to run forwards or backwards.[[1]](https://en.wikipedia.org/wiki/H-bridge#cite_note-williams_stamp-1)

Most DC-to-AC converters ([power inverters](https://en.wikipedia.org/wiki/Power_inverter)), most [AC/AC converters](https://en.wikipedia.org/wiki/AC/AC_converter), the DC-to-DC [push–pull converter](https://en.wikipedia.org/wiki/Push%E2%80%93pull_converter), most [motor controllers](https://en.wikipedia.org/wiki/Motor_controller), and many other kinds of [power electronics](https://en.wikipedia.org/wiki/Power_electronics) use H bridges. In particular, a [bipolar stepper motor](https://en.wikipedia.org/wiki/Stepper_motor#Bipolar_motor) is almost invariably driven by a motor controller containing two H bridges.

**IR remote control**

Infrared remotes are still the cheapest way to wirelessly control a device. We chose this remote because it's small, very simple, and low-cost.

**IR Sensor**

Whenever a button is pressed on the remote, it sends an infrared signal in encoded form. This signal is then received by the IR receiver and given to the Arduino.

**Work Principle:**

Motor will start work when simulation is started .

middle play button : motor starts

+vol : move forward

-vol : move backword

up arrow : speed increasing

down arrow : speed decreasing