

Physical Computing

WEEK 07

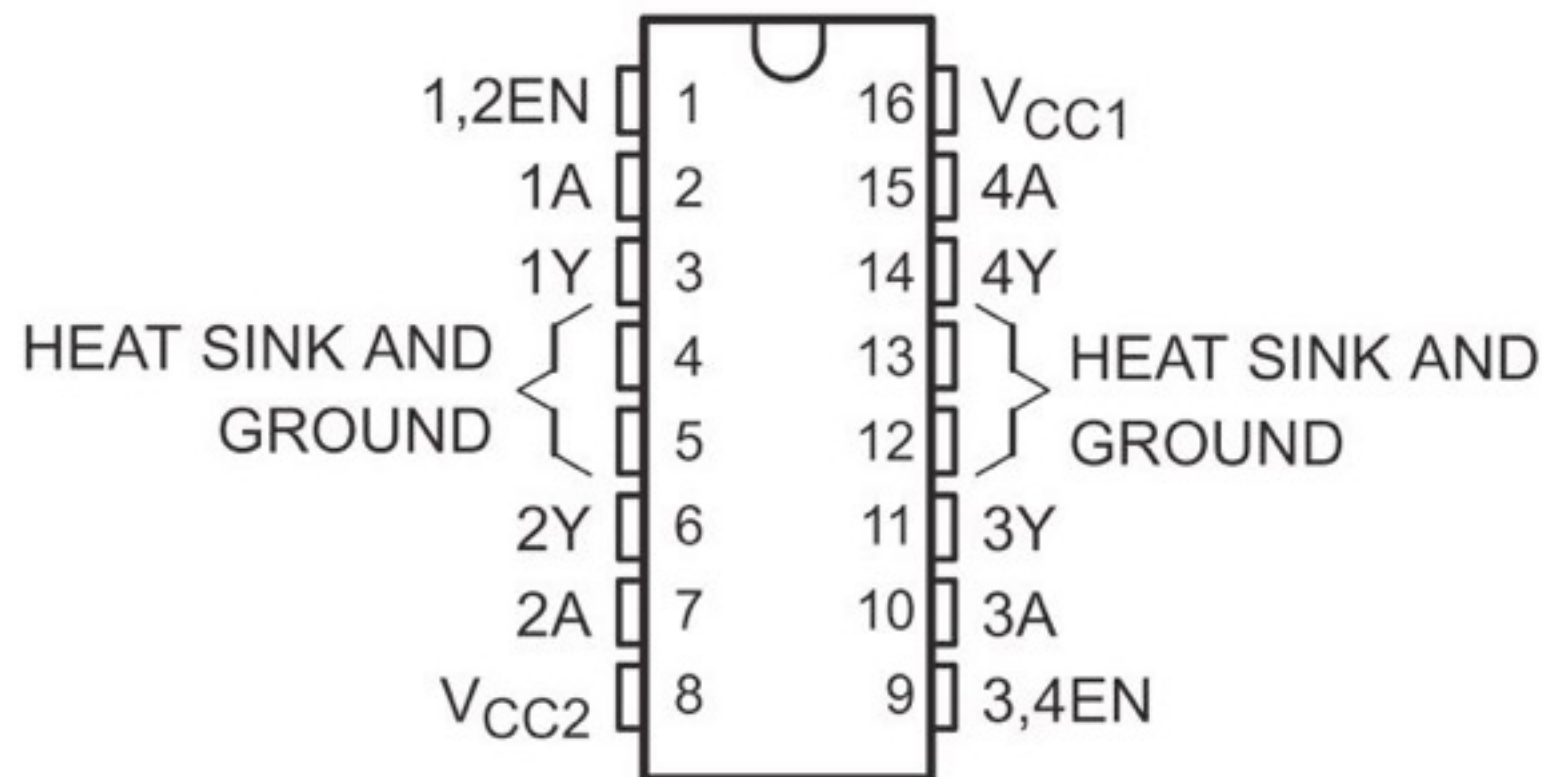
<https://www.youtube.com/watch?v=5thxBgew7N0>

H Bridge

Transistors that help us control the direction of the motor on an IC

SN754410 QUADRUPLE HALF-H DRIVER

(TOP VIEW)



FUNCTION TABLE
(each driver)

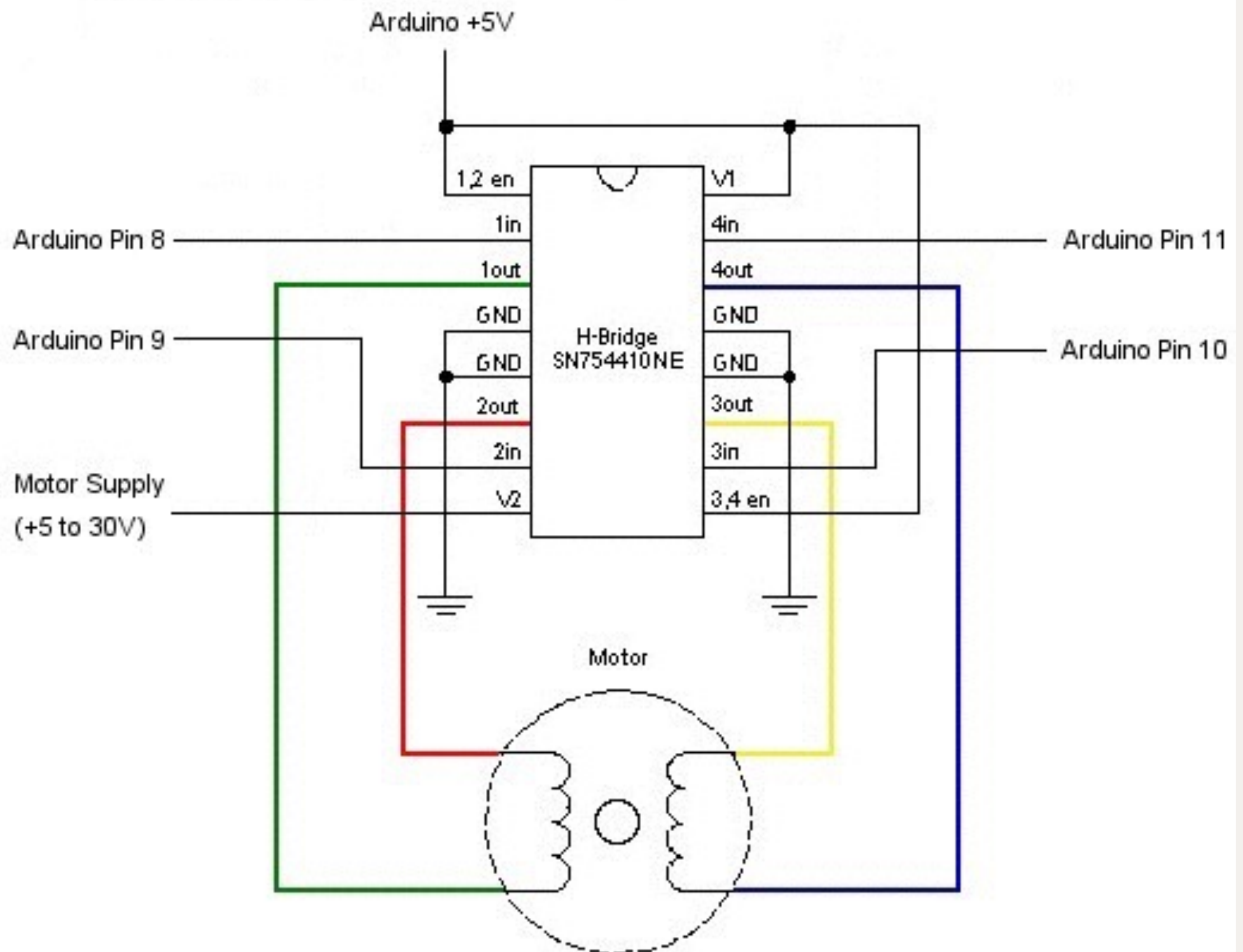
INPUTS [†]		OUTPUT Y
A	EN	
H	H	H
L	H	L
X	L	Z

H = high-level, L = low-level

X = irrelevant

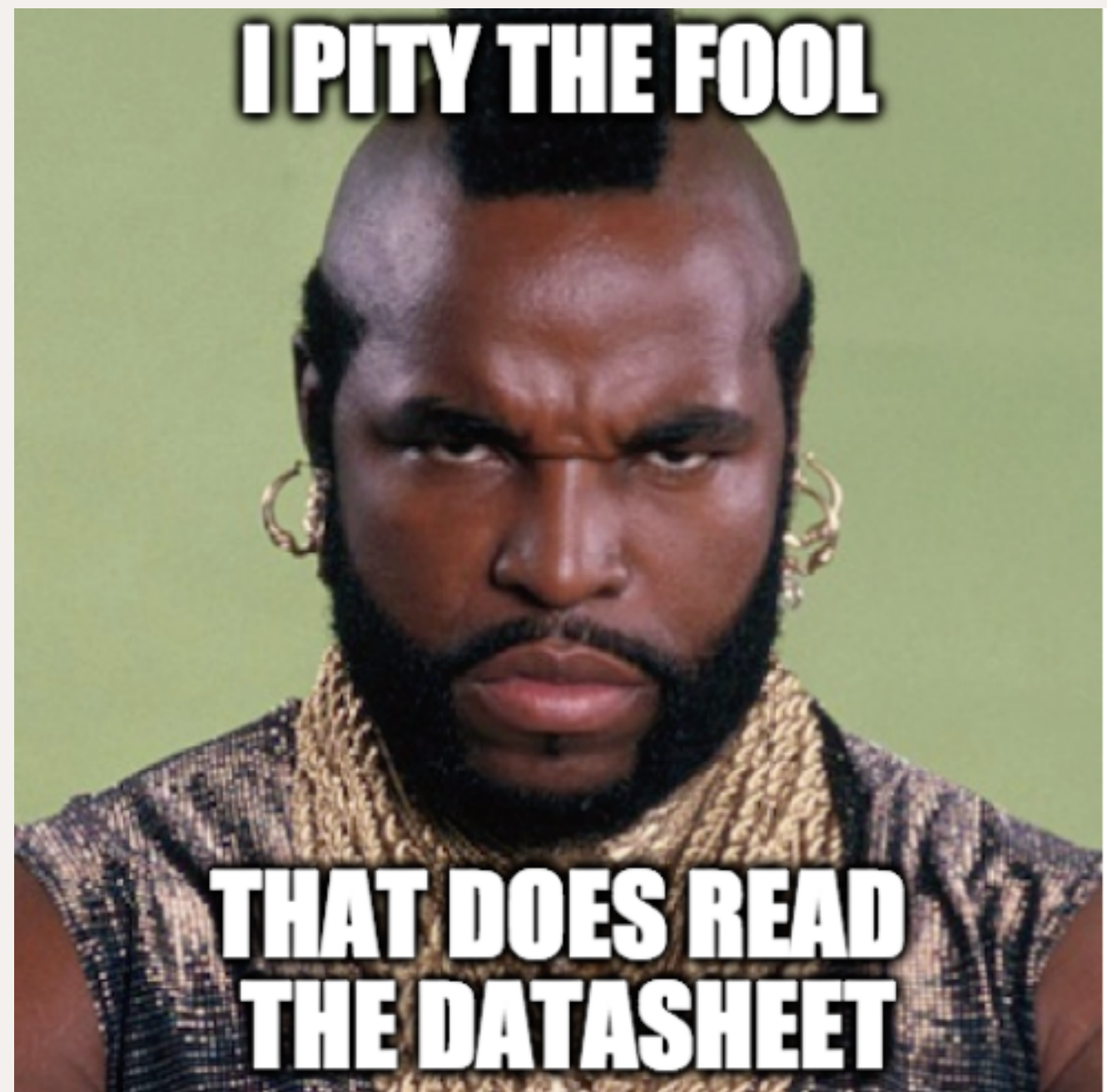
Z = high-impedance (off)

[†] In the thermal shutdown mode, the output is in a high-impedance state regardless of the input levels.



Bipolar Stepper Motor Driver

**RTFM or use the
datasheet fool!**



<http://www.ti.com/lit/ds/symmlink/sn754410.pdf>

Oscilloscopes

How to see your signal change over time basically, they graph voltage change as a graph

Great for fast changes and seeing a signal over time

Each one is slightly different.

<http://www.instructables.com/id/Oscilloscope-How-To/>

Bench power supplies

<https://www.youtube.com/watch?v=T8Z2EFrbtpU>

Current projects

<http://www.musicfromouterspace.com/>

