

Week 11: Interrupts: events instead of polling

Mokxi · one-page lesson plan

OBJECTIVE

A handler that runs the moment a pin changes, and the rules that come with it.

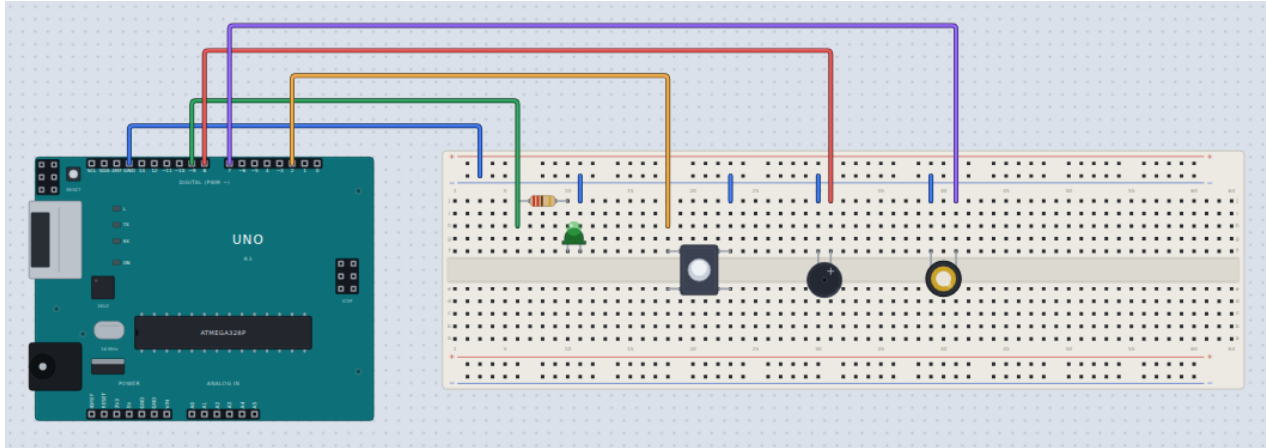
WHAT YOU NEED

Arduino Uno R3, pushbutton, piezo, buzzer, resistors, LED, breadboard

STEPS

- Read the reaction timer: it polls the button in a loop.
- Rewrite it so the button is on an external interrupt, using the shipped interrupt example as the reference.
- Then open the traffic light and explain why its wait lamp lights the instant you press, even though the sketch is inside a five s...

THE CIRCUIT



ASSESSMENT IDEA

The interrupt version running, plus a paragraph on what volatile is for and why the loop takes its copy with interrupts off.

<https://mokxi.com/curriculum#week-11>