

Week 8: More outputs than pins: the shift register

Mokxi · one-page lesson plan

OBJECTIVE

Three pins in, eight out: a 74HC595 shifting a byte and latching it.

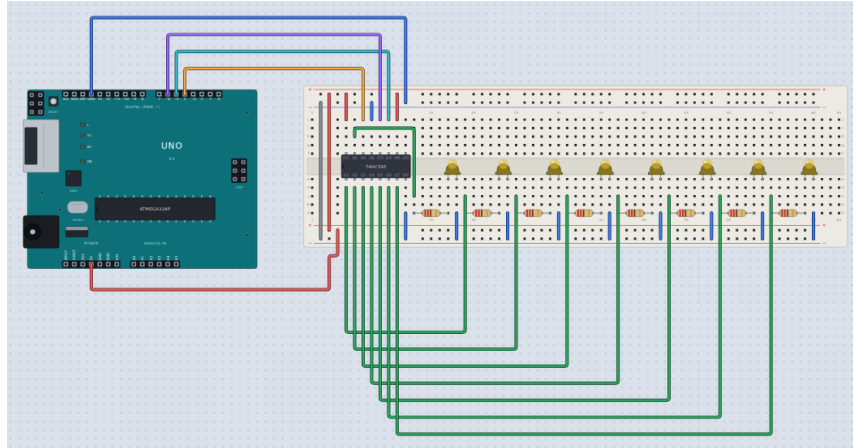
WHAT YOU NEED

Arduino Uno R3, 74HC595, resistors, eight LEDs, breadboard

STEPS

- Change the pattern to a binary count from 0 to 255.
- Then move the latch pulse inside the bit loop and describe what the LEDs do.
- Finish by opening the electronic dice, where the same idea drives a seven segment display.

THE CIRCUIT



ASSESSMENT IDEA

Their own pattern function running, with a short explanation of what the latch buys and what MR and OE are tied to.

<https://mokxi.com/curriculum#week-8>