Circuit Workshop – 8 October 2011 – David A. Mellis – mellis@media.mit.edu

Battery Holder

+ CR2032 (or 2xCR2016) –

LED (red, green, amber)

– +
– +
– +

Microcontroller

don’t connect
output: on while the input is touched - Pin 3

+ Pin 2 - output: toggled by touching the input

– Pin 1 - output: fades on and off while the input is touched

– Pin 0 - output: fades on and off always

ATtiny85V

LED (white)

– +
– +
– –

Other Programs

Twinkle: pins 0 through 4 twinkle randomly
Sweep: lights up pins 0 through 4 in turn (0, 1, 2, 3, 4)
Back & Forth: lights up 0 through 4 in turn, then back to 0 (0, 1, 2, 3, 4, 3, 2, 1, 0)
Flash: pin 4 is a touch input; the other pins flash when it’s touched

output: on while the input is touched - Pin 3

+ Pin 2 - output: toggled by touching the input

– Pin 1 - output: fades on and off while the input is touched

– Pin 0 - output: fades on and off always

ATtiny85V