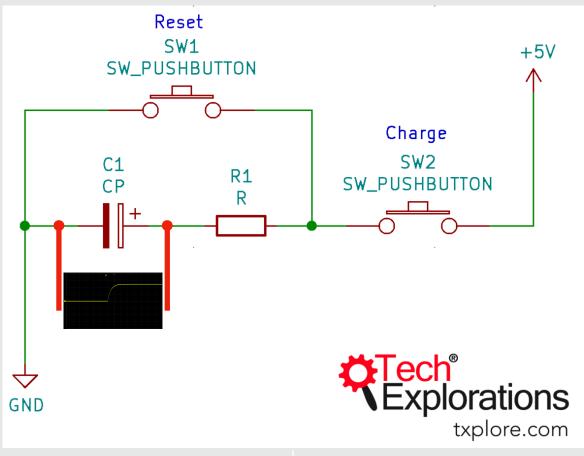
RC circuit measurements

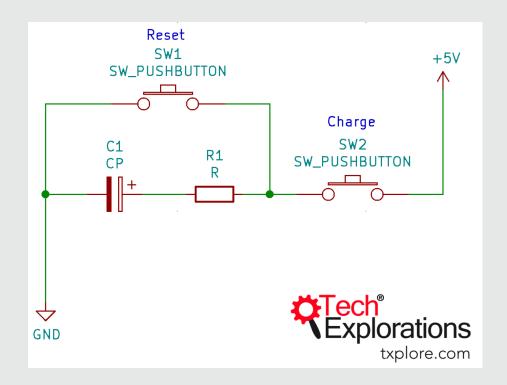


Oscilloscope Essentials



RC circuit measurements

- Setup the scope
- Triggering: automatic and manual
- Measure: Rise time, fall time, width, auto and manual
- Cursors: Auto and manual





RC circuit measurements

Time constant:
$$au=RC=rac{1}{2\pi f_c}$$

Rise time

Rise time (20% to 80%):
$$t_r pprox 1.4 au pprox rac{0.22}{f_c}$$

Rise time (10% to 90%):
$$t_r pprox 2.2 au pprox rac{0.35}{f_c}$$

