

## Playing With the Timer

UP Mode  $\rightarrow$  counts to value in  $TA_{CCR0}$

DECLK  $\rightarrow$  3MHz by default

$$1\text{MHz} = 1 \times 10^{-6}\text{s} = .000001\text{second}$$

$$\begin{array}{r} 500000 \\ 2 \overline{) 1000000} \end{array} \quad \begin{array}{l} 1000000 \text{ ticks of } 1\text{MHz clock} = 1\text{second} \\ 500000 \text{ ticks} = 1/2\text{second} \end{array}$$

P2.0  $\Rightarrow$  RED-LED

P2.1  $\Rightarrow$  GREEN-LED

P2.3  $\Rightarrow$  BLUE-LED

Possible Interrupts - Receive Interrupt

Transmit Interrupt

~~UART~~ Receive Error(s), Character Interrupt

Break character Interrupt

UCA0  $\rightarrow$  P1.2, P1.3

UCA1  $\rightarrow$  P2.2, P2.3

UCA2  $\rightarrow$  P3.2, P3.3

UCA3  $\rightarrow$  P9.6, P9.7

Motor ~~Pin~~ Pin out

Black  $\rightarrow$  Power for Motor

Red  $\rightarrow$  GND for Motor

White  $\rightarrow$  Power for HALL sensor

Yellow  $\rightarrow$  GND for HALL sensor

Orange  $\rightarrow$  SIG for 1st HALL sensor

Green  $\rightarrow$  SIG for 2nd HALL sensor

} POSITION SENSORS

MOTOR 2    MOTOR 1

PWM  $\rightarrow$  P2.4 ~~P2.5~~ P2.6

ENA  $\rightarrow$  P5.6    P6.6

ENB  $\rightarrow$  P6.7    P5.1