CS 350 Milestone Three

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* What is the purpose of the timerCallback() function?
  + The timerCallback() function manages the LED state transitions, controlling the timing and sequence of the Morse code display each time the timer interrupt is triggered.
* What does period mean in this context?
  + In this context, period refers to the time interval in microseconds between each timer interrupt. In this case, the timer fires every 500,000 microseconds (or 500 ms).
* How does the Timer\_CONTINOUS\_CALLBACK parameter impact the driver?
  + The Timer\_CONTINUOUS\_CALLBACK mode ensures that the timer keeps triggering the callback function repeatedly at the specified interval without needing to restart the timer manually.
* What is gpioButtonFxn0() used for?
  + The gpioButtonFxn0() function is a callback that gets executed when the button is pressed. It toggles between displaying the SOS and OK Morse code messages, switching the message after the current one finishes.
* What is the purpose of GPIO\_CFG\_IN\_INT\_FALLING?
  + The GPIO\_CFG\_IN\_INT\_FALLING configuration sets the GPIO pin to trigger an interrupt when the button signal falls from high to low, which corresponds to the button being pressed.