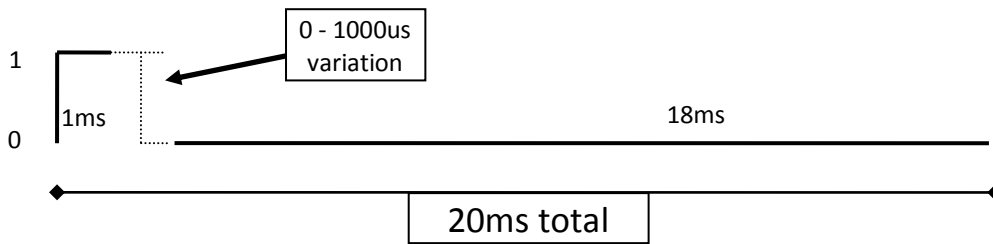


A servo is controlled by a series of pulses that repeat every 20 milliseconds (50 hertz).
 In theory, the pulse is on for one millisecond, then however long it stays on for the next millisecond determines the horn position, then it is off for 18 milliseconds.
 If the pulse is on for only one millisecond, the horn is in the "0" position.
 If the pulse is on for 1.5 milliseconds, the horn is in the "90" position.
 If the pulse is on for 2 milliseconds, the horn is in the "180" position.



```

program
  setup
    int = variable Servo1
    int = value 8
    int = variable pot
    int = value A0

  loop
    int = variable position
    int = value analogRead() # pot
    int = variable negPos
    int = value 1023 - position
    digitalWrite() # Servo1
    digitalWrite() HIGH
    delay ms milliseconds 1
    delay us microseconds position
    digitalWrite() # Servo1
    digitalWrite() LOW
    delay us microseconds negPos
    delay ms milliseconds 18
    
```



ms = milliseconds = 1/1,000 second
 us = microseconds = 1/1,000,000