```
/*---------Title-----------

  File: servo2.ino
  Started: 11/11/13
  Program Description: Control a servo position using a potentiomet
  For servo signal waveforms, see:
  http://cornerstonerobotics.org/arduino/Servo%20Signals.pdf
*/
//-----Initializations-----

  int  servo   =   9;// Give pin 9 a name (servo).
  int potpin  =  A0;// Give analog pin A0 the name potpin.
  int          x;// Variable to read the value from the analog p

void setup()
{
}
// --------Main Code--------

void loop()
{
  // Read the input on analog pin A0 (value between 0 and 1023):
   x =analogRead(potpin);
  // Re-map the value of x, (which goes from 0-1023)
  // to a value from 800 to 2300.  The range of servo rotation is
  // set by changing these two numbers.
  // Syntax: map(value, fromLow, fromHigh, toLow, toHigh)
   x =map(x, 0, 1023, 800, 2300);
  // Create HIGH pulse between 800 microseconds (0.8 ms) and
  //  2300  microseconds  (2.3  ms)  long:
  digitalWrite(servo, HIGH);
  delayMicroseconds(x);    // Wait x microseconds (800-2300 microsec
  // Create LOW pulse:
  digitalWrite(servo, LOW);
  delay(20);                    // Wait 20 ms
}
```