**Resources:**

[Arduino PWM Cheatsheet](https://playground.arduino.cc/Main/TimerPWMCheatsheet) (how to set FastPWM)

[Getting Started with Arduino and Radio](https://ava.upuaut.net/?p=617) (Uses the NTX2B but same stuff for HX1)

Generates high and low pulses to the radio. Use the set up in part 1 of the AVA tutorial

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| /\*  Demo Code to Drive NTX2B via PWM    Written by Anthony Stirk M0UPU   https://playground.arduino.cc/Main/TimerPWMCheatsheet - To understand the PWM ops    This example code is in the public domain.  \*/   #define RADIOPIN 9 // Connect TXD to a PWM timer pin (OC1A)   void setup() {  pinMode(RADIOPIN, OUTPUT);  setPwmFrequency(RADIOPIN, 1024); // Sets the PWM frequency based on the timer pin chosen - 1 is fastest 1024 is slowest (1, 8, 64, 256, 1024) }   void loop() {  analogWrite(RADIOPIN,100); //Write low  delay(500);  analogWrite(RADIOPIN,110); //Write high  delay(500); }  void setPwmFrequency(int pin, int divisor) {  byte mode;  if(pin == 5 || pin == 6 || pin == 9 || pin == 10) {  switch(divisor) {  case 1:  mode = 0x01;  break;  case 8:  mode = 0x02;  break;  case 64:  mode = 0x03;  break;  case 256:  mode = 0x04;  break;  case 1024:  mode = 0x05;  break;  default:  return;  }  if(pin == 5 || pin == 6) {  TCCR0B = TCCR0B & 0b11111000 | mode; // If pin 5 or 6, set Timer 0 to Fast PWM  }  else {  TCCR1B = TCCR1B & 0b11111000 | mode; // Else set Timer 1 to fast PWM  }  }  else if(pin == 3 || pin == 11) { // If pins 3 or 11, set Timer 2 to fast PWM  switch(divisor) {  case 1:  mode = 0x01;  break;  case 8:  mode = 0x02;  break;  case 32:  mode = 0x03;  break;  case 64:  mode = 0x04;  break;  case 128:  mode = 0x05;  break;  case 256:  mode = 0x06;  break;  case 1024:  mode = 0x7;  break;  default:  return;  }  TCCR2B = TCCR2B & 0b11111000 | mode;  } } |

**What this does:**

Sets a PWM digital pin to an output. Sets the PWM to a particular frequency (default 62.5kHz for divisor 1 -- see PWM cheat sheet for divisors). It also depends on the pin defined (defines which timer is used, avoid timer 0)