

```

' tricolor led legend
' b.1 = ground
' b.3 = red
' b.5 = blue
' b.7 = green
' common anode tricolor leds costanza rule applies
' high is off, low is on
' 1 is off and 0 is on

' we use a 20mhz clock
define OSC 20

'do the analog in thang
Define ADC_BITS 10
DEFINE ADC_CLOCK 3
DEFINE ADC_SAMPLEUS 15

start:
'INCLUDE "modedefs.bas"
'set pins to be the output
OUTPUT PORTb.7 'green
OUTPUT PORTb.6 'blue
OUTPUT PORTb.5 'red

TRISA = %11111111 'set PORTA to all input
TRISB = %00000000 'set portb to all output
ADCON1 = %10000010 'set up ADCON1

'some variables
ADCvar var word
'ADCvar1 var word
'ADCvar2 var word

high portd.2

pause 500

main:
'get input from potentiometer on portA.0
ADCin 1, ADCVAR
'get input from potentiometer on portA.2
'ADCin 2, ADCVAR1
'get input from potentiometer on portA.4
'ADCin 4, ADCVAR2

if (adcVar >= 0) and (adcvar <=400) then ' turn on

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```
blue for cold
    high portc.3 '= 0 'green
    low portd.0 '= 1 'blue
    High portd.1 '= 1 'red
endif
    if (adcVar >= 401) and (adcvar <=700) then ' turn
on green for
normal
    low portc.3 '= 0 'green
    high portd.0 '= 1 'blue
    High portd.1 '= 1 'red
endif

    if (adcVar >= 701) and (adcvar <=800) then ' turn
on red for hot
    high portc.3 '= 0 'green
    high portd.0 '= 1 'blue
    low portd.1 '= 1 'red
endif

serout2 portc.6, 16468, ["PORT A1:", dec adcVar,10,13 ]

goto main
```