```
Adafruit_NeoPixel strip0 = Adafruit_NeoPixel(20, 8, NEO_RGB + NEO_KHZ800);
Adafruit NeoPixel strip1 = Adafruit NeoPixel(20, 9, NEO RGB + NEO KHZ800);
Adafruit_NeoPixel strip2 = Adafruit_NeoPixel(20, 10, NEO_RGB +
NEO KHZ800);
Adafruit NeoPixel strip3 = Adafruit NeoPixel(20, 11, NEO RGB +
NEO_KHZ800);
int year = -1;
int yearred = 80;
int yeargreen = 20;
int yearblue = 15;
int month = 0;
int monthposition = random ();
int monthred = 10;
int monthgreen = 80:
int monthblue = 20;
int day = 0;
int wait = 3;
int stripnumber = 0;
int red[80];
int green[80];
int blue[80];
int redstep = -2;
int greenstep = 1;
int bluestep = 2;
int brightness = 0;
//int highred[] = {20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240};
//int highgreen[] = {50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160};
//int highblue[] = {40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95};
void setup()
{
 strip0.begin();
 strip0.show();
 strip1.begin();
 strip1.show();
 strip2.begin();
 strip2.show();
 strip3.begin();
 strip3.show();
 for (int i = 0; i < 80; i++)
 {
```

```
red[i] = 0;
 green[i] = 0;
  blue[i] = 0;
randomSeed(analogRead(0));
void loop() {
day++;
if (day >= 30) {
 day = 0;
month++;
if (month >= 12) {
 month = 0;
 monthred = monthred + 10;
 monthgreen = monthgreen +4;
 monthblue = monthblue +5;
 year++;
 yearred = yearred + redstep;
 if (yearred \leq 0) {
  yearred = 0;
  redstep = 3;
 yeargreen = yeargreen + greenstep;
 if (yeargreen \geq 255) {
  yeargreen = 255;
  greenstep = +5;
 yearblue = yearblue + bluestep;
 if (yearblue \gg 255) {
  yearblue = 255;
  bluestep = -2;
 }
 red[year] = yearred;
 green[year] = yeargreen;
 blue[year] = yearblue;
 for (int i = year+1; i < 80; i++) {
```

```
red[i] = 0;
  green[i] = 0;
  blue[i] = 0;
 }
}
monthposition = random (year+1, 80);
//monthred = random (30, 160);
//monthgreen = random (20,150);
//monthblue = random (10, 140);
//monthred = highred[month];
//monthgreen = highgreen[month];
//monthblue = highblue[month];
}
else {
 red[monthposition] = day * monthred/30 ;
 green[monthposition] = day * monthgreen/30;
 blue[monthposition] = day * monthblue/30;
}
for (int i = 0; i < 20; i++) {
 strip0.setPixelColor(i, red[i], green[i], blue[i]);
 strip1.setPixelColor(i, red[i+20], green[i+20], blue[i+20]);
 strip2.setPixelColor(i, red[i+40], green[i+40], blue[i+40]);
 strip3.setPixelColor(i, red[i+60], green[i+60], blue[i+60]);
}
 strip0.show();
 strip1.show();
 strip2.show();
 strip3.show();
 delay(wait);
}
```