**Adafruit\_NeoPixel Class Reference**

From (<https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html>)

#include <**[Adafruit\_NeoPixel.h](https://adafruit.github.io/Adafruit_NeoPixel/html/_adafruit___neo_pixel_8h_source.html)**>

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| Public Member Functions | |
|  | [**Adafruit\_NeoPixel**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#a163433471a799ba29f941032601b4a9d) (n, p, t) |
|  | **Parameters**   |  |  | | --- | --- | | **n** | Number of NeoPixels in strand. | | **p** | Arduino pin number which will drive the NeoPixel data in. | | **t** | Pixel type – add together NEO\_\* constants defined in **[Adafruit\_NeoPixel.h](https://adafruit.github.io/Adafruit_NeoPixel/html/_adafruit___neo_pixel_8h.html)**, for example **NEO\_GRB+NEO\_KHZ800** for NeoPixels expecting an 800 KHz (vs 400 KHz) data stream with color bytes expressed in green, red, blue order per pixel. | |
| ------------------------------------------------------------------------------------------------------------------------------------ | |
| void | [**begin**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#ac1cb16509be644232ce0e28d250083da) (void) |
|  | Configure NeoPixel pin for output. |
| void | [**show**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#a4bcda7a15591065570d3598cbf970be7) (void) |
|  | Transmit pixel data in RAM to NeoPixels |
| void | [**setPixelColor**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#ab8763ccc6f9a090df1f753905fd5561e) (n, r, g, b) |
|  | Set a pixel's (n) color using separate red, green and blue components. Note: r, g, b range = 0 to 255. |
| void | [**setPixelColor**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#a19fc274330c0e65907929ee03b93b1c3) (n, c) |
|  | Set a pixel's (n) color using a 32-bit 'packed' RGB. Example: (255,0,127) = 0xFF007F |
| void | [**fill**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#a310844b3e5580056edf52ce3268d8084) (c, first, count) |
|  | Fill all or part of the NeoPixel strip with a color. |
| void | [**setBrightness**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#aa05f7d37828c43fef00e6242dcf75959) (bright) |
|  | Adjust output brightness. Does not immediately affect what's currently displayed on the LEDs (0 = off, 255 = brightest). The next call to [**show()**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#a4bcda7a15591065570d3598cbf970be7) will refresh the LEDs at this level. |
| void | [**clear**](https://adafruit.github.io/Adafruit_NeoPixel/html/class_adafruit___neo_pixel.html#ae259682b202be0acd258d6879f4c7121) (void) |
|  | Fill the whole NeoPixel strip with 0 / black / off. |
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