

# Converting Colors

XYZ(67.6904, 100.0000,  
87.6598)

Have a look what the booklet for  
XYZ(67.6904, 100.0000, 87.6598)  
contains.

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# Color

**XYZ(58.5407, 81.6781,  
84.6315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81FFE2
RGB	129, 255, 226
RGB Percent	51%, 100%, 89%
CMY	0.4941, 0.0000, 0.1137
CMYK	0.49, 0.00, 0.11, 0.00
HSL	166°, 100%, 75%
HSV	166°, 49%, 100%
XYZ	58.5407, 81.6781, 84.6315
YIQ	214.0200, -65.7870, -35.7310

# Conversions

## Conversions Part 2

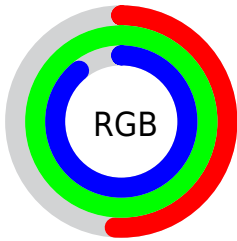
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 200, 255
Decimal	8519650
CIELab	92.43, -41.97, 3.06
CIElCh	92, 42.082, 175.824
Yxy	81.6781, 0.2604, 0.3633
Android (android.graphics.Color)	4286709730 (0xFF81FFE2)
YUV	214.0200, 5.9061, -74.5625
Hunter-Lab	90.3759, -42.5351, 7.7417

# Details

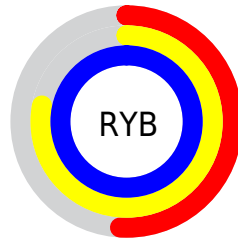
The XYZ color **58.5407, 81.6781, 84.6315** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **55.2626, 39.4303, 37.0469**, and the grayscale version is **63.9234, 67.2524, 73.2379**.

A 20% lighter version of the original color is **74.7963, 89.5588, 107.9521**, and **29.7915, 44.4867, 45.5447** is the 20% darker color. If you saturate the color by 10%, you get **54.3474, 79.6078, 80.3040**, and if you desaturate by 10%, it is **63.7297, 84.2585, 89.1523**.

# Distribution



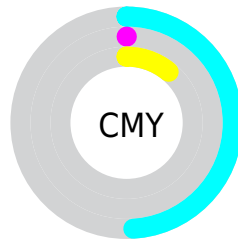
- Red (51%)
- Green (100%)
- Blue (89%)



- Red (51%)
- Yellow (78%)
- Blue (100%)



- Cyan (49%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (49%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.5407, 81.6781, 84.6315 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 58.5407, 81.6781, 84.6315 by changing the saturation by 10% instead.





 58.5407, 81.6781,  
84.6315


 58.5407, 81.6781,  
84.6315


409.1192,  
500.5703, 530.5207

 42.4884, 61.1002,  
62.9885


 101.8283,  
135.7225, 141.7278

 29.6767, 44.3061,  
45.3910


 129.7943,  
169.9578, 178.0182

 19.7402, 30.9112,  
31.4203


 162.4623,  
209.5144, 220.0282

 12.3135, 20.5312,  
20.6580

200.1976,  
254.7767, 268.1763

 7.0313, 12.7818,  
12.6854

243.3656,  
306.1290, 322.8811

 3.5282, 7.2785,  
7.0841

292.3316,

 1.4388, 3.6368,

363.9558, 384.5610

3.4355

347.4610,  
428.6414, 453.6347

■ 0.2836, 1.4726,  
1.3211

■ 0.0000, 0.2693,  
0.0790

■ 58.5407, 81.6781,  
84.6315

■ 58.5407, 81.6781,  
84.6315

■ 54.3474, 79.6078,  
80.3040

■ 63.7297, 84.2585,  
89.1523

■ 51.0736, 78.0084,  
76.1606

■ 69.9777, 87.3815,  
93.8666

■ 48.6361, 76.8371,  
72.1975

■ 77.3459, 91.0788,  
98.7800

■ 46.9352, 76.0423,  
68.4084

■ 85.8898, 95.3790,  
103.8965

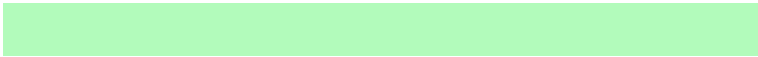
■ 45.8177, 75.5452, 95.0500, 100.0000,  
64.7847 108.9000

■ 45.7593, 75.5197,  
64.5756

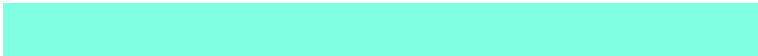
# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



61.5445, 81.6781, 59.2843



58.5407, 81.6781, 84.6315



60.2457, 81.6781, 117.7426

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



58.5407, 81.6781, 84.6315



87.1299, 81.6781, 154.6835



90.0177, 81.6781, 47.9274

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



58.5407, 81.6781, 84.6315



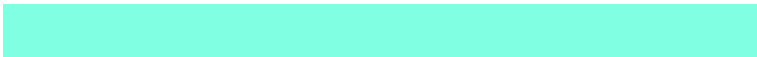
55.2626, 39.4303, 37.0469

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



98.0790, 81.6781, 65.2546



58.5407, 81.6781, 84.6315



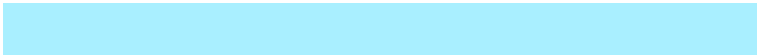
96.3052, 81.6781, 127.1139

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



58.5407, 81.6781, 84.6315



76.1155, 81.6781, 163.2811



100.4805, 81.6781, 93.3790

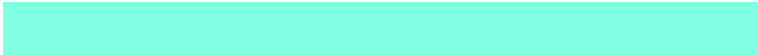


79.1697, 81.6781, 41.4783



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



58.5407, 81.6781, 84.6315



63.9174, 81.6781, 139.3322



100.4805, 81.6781, 93.3790



93.1815, 81.6781, 52.4414

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



58.5416, 81.6785, 84.6329



80.9658, 92.8993, 101.0112



53.9027, 80.4151, 33.4510



16.9535, 19.6949, 21.3912



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

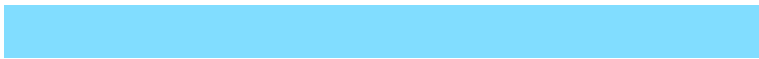
The Same Dimension uses a secret algorithm to generate beautiful new colors.



58.5416, 81.6785, 84.6329



54.5008, 79.6832, 80.4779



53.0664, 63.8124, 104.1279



18.3655, 20.4057, 22.2276



23.9702, 39.4847, 34.0579



2.3754, 3.8611, 3.5344



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



55.2626, 39.4303, 37.0469



50.9190, 33.1410, 28.2068



58.2295, 48.8987, 27.1397



18.1806, 18.0556, 19.5682



22.0037, 11.2908, 3.4041

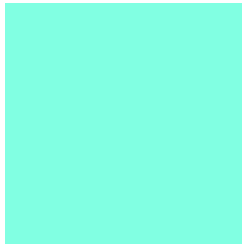


2.1820, 1.1152, 0.5400



# Previews

## White Background



This preview shows how the XYZ color 58.5407, 81.6781, 84.6315 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

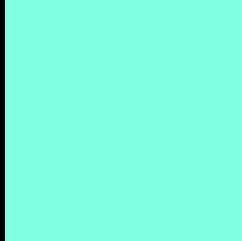
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 58.5407, 81.6781, 84.6315 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

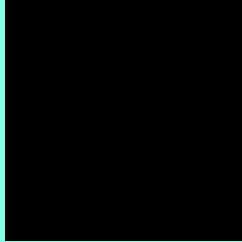
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 58.5407, 81.6781, 84.6315

## Background



This preview shows how black text looks on a background with the XYZ color 58.5407, 81.6781, 84.6315.



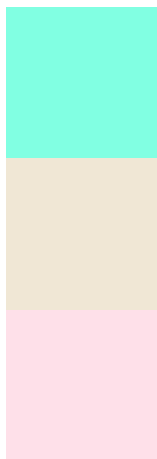
This preview shows how white text looks on a background with the XYZ color 58.5407, 81.6781,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

58.5407, 81.6781, 84.6315

### Protanopia

76.5213, 80.4812, 74.4521

### Deuteranopia

82.2367, 80.2653, 88.2492



## Tritanopia

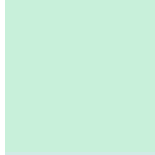
69.5693, 80.9146, 106.5591

# Trichromacy



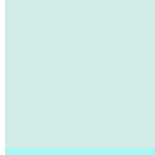
## Original Color

58.5407, 81.6781, 84.6315



## Protanomaly

67.6344, 79.6615, 78.1412



## Deuteranomaly

70.2858, 78.6851, 86.3462



## Tritanomaly

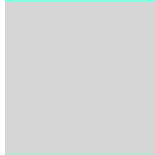
64.8997, 80.9457, 97.7915

# Monochromacy



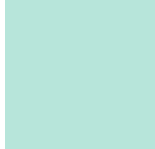
## Original Color

58.5407, 81.6781, 84.6315



## Achromatopsia

63.9157, 67.2443, 73.2291



## Achromatomaly

60.2026, 71.1679, 76.8934

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.5407, 81.6781, 84.6315 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(129, 255, 226)` looks like.

```
.text, #text, p{  
    color:rgb(129, 255, 226)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(129, 255, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 255, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 58.5407, 81.6781, 84.6315 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(129, 255, 226) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(129, 255, 226) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(129, 255, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 255, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 255, 226);  
box-shadow:4px 4px 4px 4px rgb(129, 255,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.5407, 81.6781, 84.6315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 255, 226) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(129,  
255, 226) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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