

# Converting Colors

XYZ(51.8954, 64.9922, 89.0808)

Have a look what the booklet for  
XYZ(51.8954, 64.9922, 89.0808)  
contains.

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# Color

**XYZ(51.8971, 64.9749,  
89.1630)**

# Conversions

## Conversions Part 1

Format	Color
Hex	86E1EC
RGB	134, 225, 236
RGB Percent	53%, 88%, 93%
CMY	0.4745, 0.1176, 0.0745
CMYK	0.43, 0.05, 0.00, 0.07
HSL	186°, 73%, 73%
HSV	186°, 43%, 93%
XYZ	51.8971, 64.9749, 89.1630
YIQ	199.0450, -57.7670, -15.8710

# Conversions

## Conversions Part 2

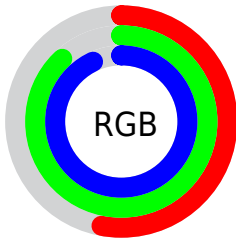
<b>Format</b>	<b>Color</b>
<b>RYB</b>	134, 182, 236
Decimal	8839660
CIELab	84.47, -24.39, -13.89
CIELCh	84, 28.071, 209.653
Yxy	64.9749, 0.2519, 0.3154
Android (android.graphics.Color)	4287029740 (0xFF86E1EC)
YUV	199.0450, 18.2188, -57.0445
Hunter-Lab	80.6070, -26.1389, -9.1584

# Details

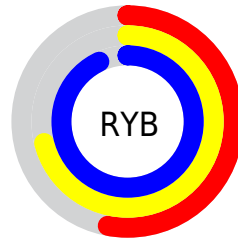
The XYZ color **51.8971, 64.9749, 89.1630** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **49.0218, 39.8061, 27.6557**, and the grayscale version is **54.2328, 57.0571, 62.1352**.

A 20% lighter version of the original color is **75.5482, 89.9465, 107.9873**, and **25.4067, 33.2077, 48.2507** is the 20% darker color. If you saturate the color by 10%, you get **47.8648, 61.8840, 88.7801**, and if you desaturate by 10%, it is **56.7829, 68.5240, 89.5917**.

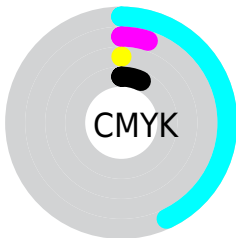
# Distribution



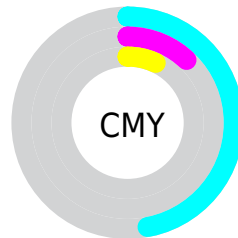
- Red (53%)
- Green (88%)
- Blue (93%)



- Red (53%)
- Yellow (71%)
- Blue (93%)



- Cyan (43%)
- Magenta (5%)
- Yellow (0%)
- Black (7%)



- Cyan (47%)
- Magenta (12%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.8971, 64.9749, 89.1630 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 51.8971, 64.9749, 89.1630 by changing the saturation by 10% instead.



51.8971, 64.9749,  
89.1630

51.8971, 64.9749,  
89.1630

384.3697,  
442.7018, 545.8040

37.1470, 47.4407,  
66.7169

92.1546, 112.0138,  
148.1006

25.4955, 33.3842,  
48.3944

118.3927,  
142.2873, 185.4291

16.5773, 22.4209,  
33.7771

149.1908,  
177.5760, 228.5554

10.0270, 14.1665,  
22.4465

184.9144,  
218.2643, 277.8982

5.4793, 8.2366,  
13.9839

225.9287,  
264.7367, 333.8759

2.5687, 4.2467,  
7.9708

272.5991,

0.9301, 1.8125,

317.3774, 396.9071

3.9888

325.2910,  
376.5710, 467.4103

■ 0.0000, 0.4949,  
1.6192

■ 0.0000, 0.0000,  
0.3045

■ 51.8971, 64.9749,  
89.1630

■ 51.8971, 64.9749,  
89.1630

■ 47.8648, 61.8840,  
88.7801

■ 56.7829, 68.5240,  
89.5917

■ 44.6235, 59.2146,  
88.4356


■ 62.5675, 72.5503,  
90.0639


■ 42.1118, 56.9363,  
88.1283


■ 69.3002, 77.0806,  
90.5835


■ 40.2562, 55.0113,  
87.8545


■ 77.0248, 82.1378,  
91.1525

 38.9680, 53.3937,  
87.6102


 85.7826, 87.7430,  
91.7729

 38.3244, 52.4239,  
87.4569

 87.6207, 89.7965,  
92.0724

 88.3762, 91.3076,  
92.3242

 89.1423, 92.8397,  
92.5796

 89.9190, 94.3931,  
92.8384

# Harmonies

## Analogous

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



50.5093, 64.9749, 70.5383



51.8971, 64.9749, 89.1630



55.8857, 64.9749, 104.7715

# Triad

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



51.8971, 64.9749, 89.1630



72.7109, 64.9749, 89.5851



61.8295, 64.9749, 41.6261

# Complementary

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



51.8971, 64.9749, 89.1630



49.0218, 39.8061, 27.6557

# 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.



68.0251, 64.9749, 45.0232



51.8971, 64.9749, 89.1630



74.5608, 64.9749, 70.9554

# Square

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



51.8971, 64.9749, 89.1630



67.8907, 64.9749, 105.0426



72.7921, 64.9749, 55.0586



56.0038, 64.9749, 44.8690

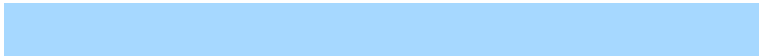


# Rectangle

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



51.8971, 64.9749, 89.1630



59.6247, 64.9749, 110.2608



72.7921, 64.9749, 55.0586



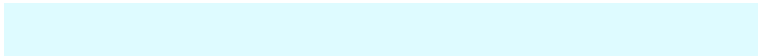
63.9389, 64.9749, 42.0196

# Sweetspot

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



51.8991, 64.9774, 89.1645



82.7586, 91.9865, 108.0011



44.8779, 67.0804, 37.0501



17.3106, 19.4208, 23.0862



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

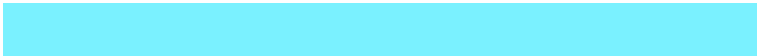


# Same Dimension

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



51.8991, 64.9774, 89.1645



57.5001, 74.1215, 105.8840



40.2646, 41.7085, 85.2864



15.3709, 16.8282, 19.3603



21.1830, 29.0131, 48.2266



1.7031, 2.3578, 3.8002



# Inverse Universe

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



56.7095, 40.3211, 76.0307



64.0815, 41.6106, 87.6405



58.4566, 58.6757, 30.8006



15.6408, 15.2842, 18.6595



25.5475, 12.4217, 35.0142



2.0262, 0.9834, 2.8552



# Previews

## White Background



This preview shows how the XYZ color 51.8971, 64.9749, 89.1630 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

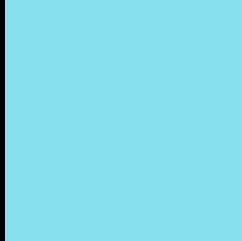
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.8971, 64.9749, 89.1630 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

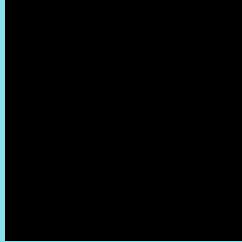
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 51.8971, 64.9749, 89.1630

## Background



This preview shows how black text looks on a background with the XYZ color 51.8971, 64.9749, 89.1630.



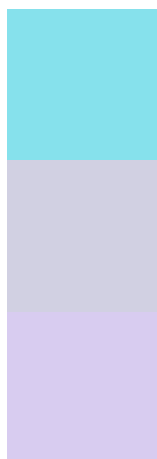
This preview shows how white text looks on a background with the XYZ color 51.8971, 64.9749,

89.1630.

# 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

51.8971, 64.9749, 89.1630

### Protanopia

62.5778, 64.1580, 81.0370

### Deuteranopia

65.6399, 64.0759, 91.3464



## **Tritanopia**

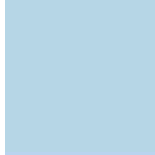
52.8360, 64.9564, 93.7575

# Trichromacy



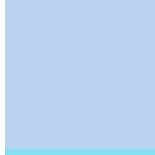
## Original Color

51.8971, 64.9749, 89.1630



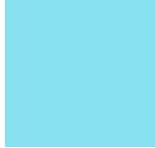
## Protanomaly

57.6209, 63.7514, 84.1312



## Deuteranomaly

59.3732, 63.7581, 90.8386



## Tritanomaly

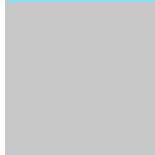
52.3755, 64.7535, 92.1763

# Monochromacy



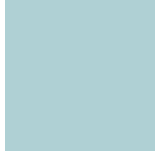
## Original Color

51.8971, 64.9749, 89.1630



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

52.1187, 58.9792, 70.9245

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.8971, 64.9749, 89.1630 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(134, 225, 236)` looks like.

```
.text, #text, p{  
    color:rgb(134, 225, 236)  
}
```

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(134, 225, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(134, 225, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 51.8971, 64.9749, 89.1630 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(134, 225, 236) }
```



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

```
.border{ border-color:rgb(134, 225, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(134, 225, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(134, 225, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(134, 225, 236);  
box-shadow:4px 4px 4px 4px rgb(134, 225,  
236) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.8971, 64.9749, 89.1630 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(134, 225, 236) }
```

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

```
.background{ background-color: rgb(134,  
225, 236) }
```

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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