

# Converting Colors

XYZ(50.9480, 64.8091,  
121.6918)

Have a look what the booklet for  
XYZ(50.9480, 64.8091, 121.6918)  
contains.

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# Color

**XYZ(47.7800, 63.7309,  
104.3908)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3EE4FF
RGB	62, 228, 255
RGB Percent	24%, 89%, 100%
CMY	0.7568, 0.1059, 0.0000
CMYK	0.76, 0.11, 0.00, 0.00
HSL	188°, 100%, 62%
HSV	188°, 76%, 100%
XYZ	47.7800, 63.7309, 104.3908
YIQ	181.4440, -107.6030, -26.7950

# Conversions

## Conversions Part 2

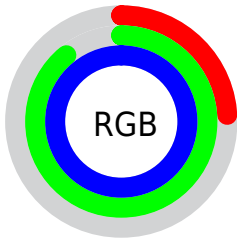
<b>Format</b>	<b>Color</b>
<b>RYB</b>	62, 151, 255
Decimal	4121855
CIELab	83.83, -32.72, -25.10
CIELCh	84, 41.237, 217.491
Yxy	63.7309, 0.2213, 0.2952
Android (android.graphics.Color)	4282311935 (0xFF3EE4FF)
YUV	181.4440, 36.2631, -104.7524
Hunter-Lab	79.8316, -32.8714, -21.6477

# Details

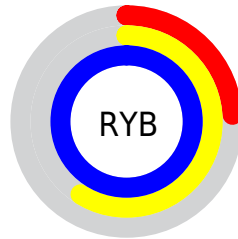
The XYZ color **47.7800, 63.7309, 104.3908** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **45.6833, 28.7547, 7.7020**, and the grayscale version is **44.0158, 46.3080, 50.4295**.

A 20% lighter version of the original color is **64.1265, 84.0584, 107.4528**, and **24.9456, 33.5823, 58.5933** is the 20% darker color. If you saturate the color by 10%, you get **45.5686, 61.1503, 104.0092**, and if you desaturate by 10%, it is **50.7646, 66.7427, 104.8148**.

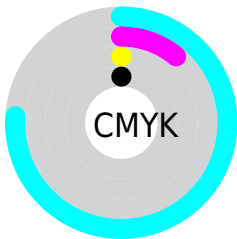
# Distribution



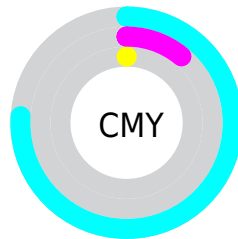
- Red (24%)
- Green (89%)
- Blue (100%)



- Red (24%)
- Yellow (59%)
- Blue (100%)



- Cyan (76%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (76%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7800, 63.7309, 104.3908 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 47.7800, 63.7309, 104.3908 by changing the saturation by 10% instead.



47.7800, 63.7309,  
104.3908

47.7800, 63.7309,  
104.3908

368.5166,  
438.2172, 595.5466

33.8632, 46.4328,  
79.3353

86.0884, 110.2233,  
169.2825

22.9509, 32.5875,  
58.6486

111.2108,  
140.1863, 209.9557

14.6778, 21.8106,  
41.9121

140.7991,  
175.1398, 256.6719

8.6784, 13.7178,  
28.7074

175.2186,  
215.4681, 309.8497

4.5874, 7.9247,  
18.6159

214.8348,  
261.5556, 369.9075

2.0395, 4.0468,  
11.2191

260.0129,

0.6560, 1.6998,

313.7867, 437.2638

6.0984

311.1184,  
372.5457, 512.3374

■ 0.0000, 0.4235,  
2.8352

■ 0.0000, 0.0000,  
1.0111

■ 47.7800, 63.7309,  
104.3908

■ 47.7800, 63.7309,  
104.3908

■ 45.5686, 61.1503,  
104.0092

■ 50.7646, 66.7427,  
104.8148

■ 44.0100, 58.9348,  
103.6637

■ 54.6097, 70.2272,  
105.2847

■ 43.4671, 58.0542,  
103.5224

■ 59.3968, 74.2276,  
105.8046

■ 65.1961, 78.7804,  
106.3777

■ 72.0712, 83.9186,  
107.0071

■ 80.0802, 89.6723,  
107.6955

■ 89.2773, 96.0695,  
108.4456

■ 95.0500, 100.0000,  
108.9000

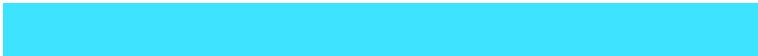
# Harmonies

## Analogous

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



44.8960, 63.7309, 76.0996



47.7800, 63.7309, 104.3908



54.1487, 63.7309, 126.4205

# Triad

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



47.7800, 63.7309, 104.3908



78.1296, 63.7309, 90.2916



58.3322, 63.7309, 30.7576

# Complementary

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



47.7800, 63.7309, 104.3908



45.6833, 28.7547, 7.7020

# 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.



67.4892, 63.7309, 32.7610



47.7800, 63.7309, 104.3908



79.5339, 63.7309, 63.0908

# Square

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



47.7800, 63.7309, 104.3908



71.8043, 63.7309, 116.9672



75.4702, 63.7309, 43.2468



50.5808, 63.7309, 36.8637

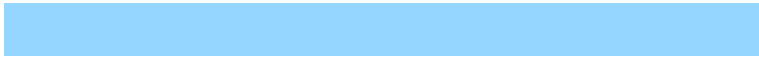


# Rectangle

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



47.7800, 63.7309, 104.3908



59.8150, 63.7309, 132.1001



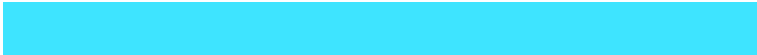
75.4702, 63.7309, 43.2468



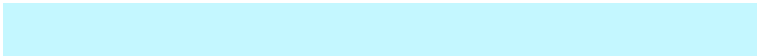
61.3400, 63.7309, 30.5384

# Sweetspot

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



47.7818, 63.7331, 104.3911



74.1043, 85.3992, 107.1857



39.4985, 73.2450, 21.2335



15.2789, 17.8540, 22.8908



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

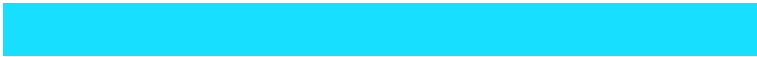


# Same Dimension

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



47.7818, 63.7331, 104.3911



44.6667, 59.9305, 103.8213



28.3945, 24.9585, 97.9287



18.3255, 20.0226, 23.1488



22.7959, 30.5013, 54.1205



2.2765, 3.0838, 5.2885



# Inverse Universe

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



56.9675, 30.3085, 76.2486



54.8025, 27.1736, 71.8427



59.3001, 55.9883, 12.2410



18.6769, 18.2541, 22.1819



28.2945, 13.8071, 36.5309

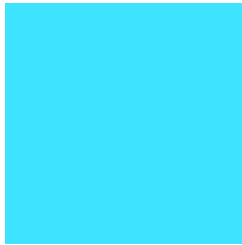


2.7837, 1.3559, 3.7083



# Previews

## White Background



This preview shows how the XYZ color 47.7800, 63.7309, 104.3908 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

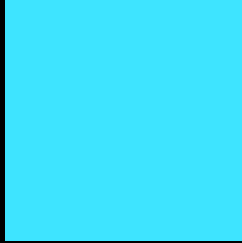
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7800, 63.7309, 104.3908 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

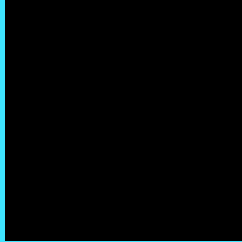
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 47.7800, 63.7309, 104.3908

## Background



This preview shows how black text looks on a background with the XYZ color 47.7800, 63.7309, 104.3908.



This preview shows how white text looks on a background with the XYZ color 47.7800, 63.7309,



# 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

47.7800, 63.7309, 104.3908

### Protanopia

61.8869, 62.8514, 91.3078

### Deuteranopia

63.7303, 62.8232, 103.3749



## Tritanopia

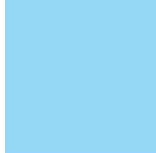
46.5935, 63.6567, 98.6382

# Trichromacy



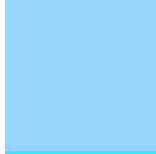
## Original Color

47.7800, 63.7309, 104.3908



## Protanomaly

53.1057, 61.1697, 95.3942



## Deuteranomaly

54.4219, 61.2925, 103.5700



## Tritanomaly

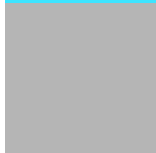
47.1768, 63.9032, 101.1149

# Monochromacy



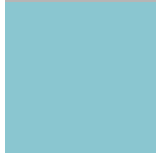
## Original Color

47.7800, 63.7309, 104.3908



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

42.0605, 50.3455, 67.1753

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7800, 63.7309, 104.3908 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(62, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(62, 228, 255)  
}
```

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(62, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(62, 228, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7800, 63.7309, 104.3908 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(62, 228, 255) }
```



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

```
.border{ border-color:rgb(62, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(62, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(62, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(62, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(62, 228,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7800, 63.7309, 104.3908 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(62, 228, 255) }
```

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

```
.background{ background-color: rgb(62, 228,  
255) }
```

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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