

# Converting Colors

XYZ(49.0166, 67.2515, 70.9131)

Have a look what the booklet for  
XYZ(49.0166, 67.2515, 70.9131)  
contains.

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# Color

**XYZ(48.9597, 67.1664,  
70.7056)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CE9D1
RGB	124, 233, 209
RGB Percent	49%, 91%, 82%
CMY	0.5137, 0.0863, 0.1804
CMYK	0.47, 0.00, 0.10, 0.09
HSL	167°, 71%, 70%
HSV	167°, 47%, 91%
XYZ	48.9597, 67.1664, 70.7056
YIQ	197.6730, -57.2600, -30.5720

# Conversions

## Conversions Part 2

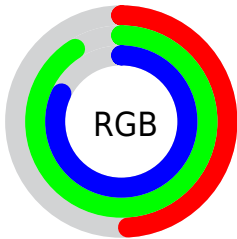
<b>Format</b>	<b>Color</b>
<b>RYB</b>	124, 185, 233
Decimal	8186321
CIELab	85.59, -37.07, 1.96
CIELCh	86, 37.122, 176.974
Yxy	67.1664, 0.2621, 0.3595
Android (android.graphics.Color)	4286376401 (0xFF7CE9D1)
YUV	197.6730, 5.5842, -64.6112
Hunter-Lab	81.9551, -36.7862, 6.2170

# Details

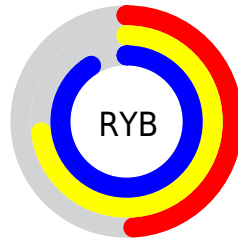
The XYZ color **48.9597, 67.1664, 70.7056** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **46.1595, 33.8788, 32.1257**, and the grayscale version is **53.4717, 56.2564, 61.2632**.

A 20% lighter version of the original color is **73.1014, 88.6851, 107.8728**, and **23.7529, 34.9008, 36.4950** is the 20% darker color. If you saturate the color by 10%, you get **45.3573, 65.3832, 67.2753**, and if you desaturate by 10%, it is **53.3818, 69.3732, 74.2840**.

# Distribution



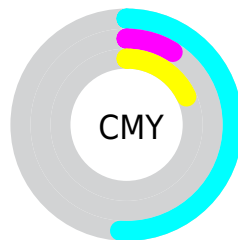
- Red (49%)
- Green (91%)
- Blue (82%)



- Red (49%)
- Yellow (73%)
- Blue (91%)



- Cyan (47%)
- Magenta (0%)
- Yellow (10%)
- Black (9%)



- Cyan (51%)
- Magenta (9%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9597, 67.1664, 70.7056 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 48.9597, 67.1664, 70.7056 by changing the saturation by 10% instead.





 48.9597, 67.1664,  
70.7056


 48.9597, 67.1664,  
70.7056


373.1032,  
450.5368, 481.8795


 34.8019, 49.2199,  
51.6216


 87.8327, 115.1588,  
121.9050

 23.6761, 34.7939,  
36.3234


 113.2786,  
145.9735, 154.8575

 15.2170, 23.5042,  
24.3924


 143.2179,  
181.8463, 193.2699

 9.0591, 14.9662,  
15.4101

178.0160,  
223.1617, 237.5607

 4.8372, 8.7957,  
8.9579

218.0382,  
270.3041, 288.1486

 2.1858, 4.6082,  
4.6173

263.6499,

 0.7352, 2.0192,

323.6578, 345.4520

1.9697

315.2165,  
383.6072, 409.8894

■ 0.0000, 0.6186,  
0.5366

■ 0.0000, 0.0000,  
0.0000

■ 48.9597, 67.1664,  
70.7056

■ 48.9597, 67.1664,  
70.7056

■ 45.3573, 65.3832,  
67.2753

■ 53.3818, 69.3732,  
74.2840

■ 42.5119, 63.9862,  
63.9847

■ 58.6695, 72.0221,  
78.0093


■ 40.3607, 62.9448,  
60.8315


■ 64.8719, 75.1401,  
81.8861


■ 38.8280, 62.2199,  
57.8110


■ 72.0327, 78.7499,  
85.9175


 37.8175, 61.7620,  
54.9178


 80.1928, 82.8723,  
90.1063

 37.5522, 61.6450,  
54.0108

 86.0766, 85.8188,  
94.3001

 86.8490, 86.1277,  
98.3672

 87.6430, 86.4454,  
102.5487

 88.4301, 86.7602,  
106.6934

# Harmonies

## Analogous

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



51.1712, 67.1664, 50.6042



48.9597, 67.1664, 70.7056



50.4353, 67.1664, 96.3174

# Triad

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



48.9597, 67.1664, 70.7056



71.4912, 67.1664, 122.8948



73.1040, 67.1664, 40.6635

# Complementary

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



48.9597, 67.1664, 70.7056



46.1595, 33.8788, 32.1257

# 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.



79.4306, 67.1664, 54.0035



48.9597, 67.1664, 70.7056



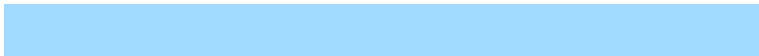
78.4433, 67.1664, 101.5164

# Square

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



48.9597, 67.1664, 70.7056



62.9864, 67.1664, 130.0894



81.4649, 67.1664, 75.6149



64.7005, 67.1664, 35.8321



# Rectangle

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



48.9597, 67.1664, 70.7056



53.3895, 67.1664, 112.6656



81.4649, 67.1664, 75.6149



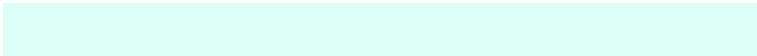
75.5715, 67.1664, 44.1340

# Sweetspot

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



48.9616, 67.1691, 70.7072



81.8737, 93.3506, 101.8112



45.2527, 66.1662, 29.4562



17.1353, 19.7849, 21.5652



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.



48.9616, 67.1691, 70.7072



55.8618, 80.3356, 82.7670



44.5992, 53.3247, 85.0360



15.3674, 17.0618, 18.6177



21.3553, 34.9966, 30.8999



1.7119, 2.7621, 2.6108



# Inverse Universe

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



46.1595, 33.8788, 32.1257



52.0632, 34.8953, 30.2350



48.6467, 41.5851, 24.5327



15.2013, 15.1084, 16.3451



19.4485, 9.9821, 2.8974

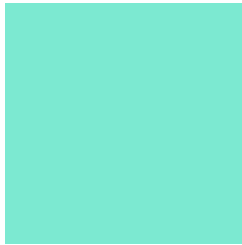


1.5624, 0.7979, 0.4129



# Previews

## White Background



This preview shows how the XYZ color 48.9597, 67.1664, 70.7056 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

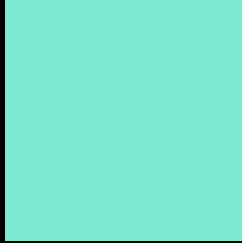
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9597, 67.1664, 70.7056 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

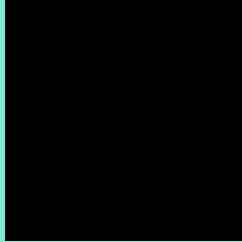
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

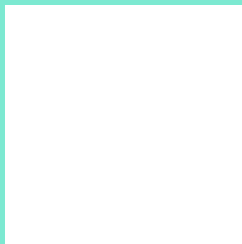
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.9597, 67.1664, 70.7056**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9597, 67.1664, 70.7056.



This preview shows how white text looks on a background with the XYZ color 48.9597, 67.1664,



# 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

48.9597, 67.1664, 70.7056

### Protanopia

63.1367, 66.3338, 62.2994

### Deuteranopia

67.6158, 66.2047, 73.5050



## Tritanopia

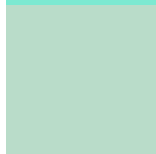
54.3696, 67.2915, 97.3118

# Trichromacy



## Original Color

48.9597, 67.1664, 70.7056



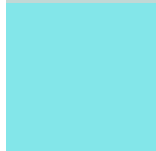
## Protanomaly

56.1434, 65.7177, 64.9841



## Deuteranomaly

58.5584, 65.2533, 72.4596



## Tritanomaly

52.3649, 67.3021, 87.3215

# Monochromacy



## Original Color

48.9597, 67.1664, 70.7056



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

50.7495, 59.5107, 64.6890

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9597, 67.1664, 70.7056 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(124, 233, 209)` looks like.

```
.text, #text, p{  
    color:rgb(124, 233, 209)  
}
```

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(124, 233, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 233, 209) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9597, 67.1664, 70.7056 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(124, 233, 209) }
```



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

```
.border{ border-color:rgb(124, 233, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 233, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 233, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 233, 209);  
box-shadow:4px 4px 4px 4px rgb(124, 233,  
209) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9597, 67.1664, 70.7056 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 233, 209) }
```

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

```
.background{ background-color: rgb(124,  
233, 209) }
```

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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