

# Converting Colors

XYZ(37.2216, 50.0989, 66.9128)

Have a look what the booklet for  
XYZ(37.2216, 50.0989, 66.9128)  
contains.

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# Color

**XYZ(37.0718, 49.8644,  
66.7024)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5ACCCF
RGB	90, 204, 207
RGB Percent	35%, 80%, 81%
CMY	0.6470, 0.2000, 0.1882
CMYK	0.57, 0.01, 0.00, 0.19
HSL	182°, 55%, 58%
HSV	182°, 57%, 81%
XYZ	37.0718, 49.8644, 66.7024
YIQ	170.2560, -68.9070, -23.2350

# Conversions

## Conversions Part 2

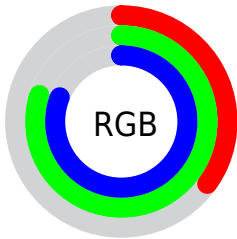
<b>Format</b>	<b>Color</b>
<b>RYB</b>	90, 148, 207
Decimal	5950671
CIELab	75.99, -31.17, -11.26
CIELCh	76, 33.145, 199.866
Yxy	49.8644, 0.2413, 0.3246
Android (android.graphics.Color)	4284140751 (0xFF5ACCCF)
YUV	170.2560, 18.1148, -70.3845
Hunter-Lab	70.6147, -29.8656, -6.5748

# Details

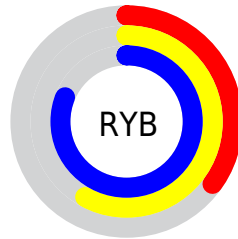
The XYZ color **37.0718, 49.8644, 66.7024** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **31.4929, 21.8332, 12.2285**, and the grayscale version is **38.2747, 40.2680, 43.8518**.

A 20% lighter version of the original color is **66.3877, 85.2240, 107.5586**, and **16.4972, 23.7948, 33.8604** is the 20% darker color. If you saturate the color by 10%, you get **35.2064, 48.7170, 66.5801**, and if you desaturate by 10%, it is **39.5012, 51.3054, 66.8534**.

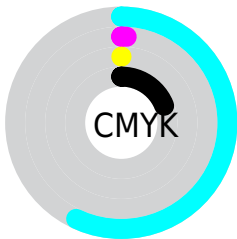
# Distribution



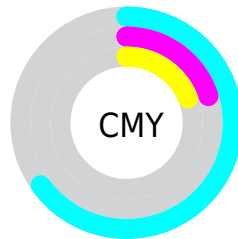
- Red (35%)
- Green (80%)
- Blue (81%)



- Red (35%)
- Yellow (58%)
- Blue (81%)



- Cyan (57%)
- Magenta (1%)
- Yellow (0%)
- Black (19%)



- Cyan (65%)
- Magenta (20%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0718, 49.8644, 66.7024 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 37.0718, 49.8644, 66.7024 by changing the saturation by 10% instead.



37.0718, 49.8644,  
66.7024

37.0718, 49.8644,  
66.7024

324.9714,  
386.1354, 467.3573

25.4370, 35.3057,  
48.3827

69.9963, 89.9739,  
116.1305

16.5334, 23.8984,  
33.7679

92.0168, 116.2935,  
148.0760

9.9956, 15.2583,  
22.4395

118.2298,  
147.3022, 185.4005

5.4583, 9.0009,  
13.9788

149.0008,  
183.3843, 228.5226

2.5561, 4.7417,  
7.9673

184.6951,  
224.9243, 277.8607

0.9236, 2.0965,  
3.9866

225.6781,

0.0000, 0.6627,

272.3066, 333.8336

1.6180

272.3150,  
325.9155, 396.8596

■ 0.0000, 0.0000,  
0.3036

■ 0.0000, 0.0000,  
0.0000

■ 37.0718, 49.8644,  
66.7024

■ 37.0718, 49.8644,  
66.7024

■ 35.2064, 48.7170,  
66.5801

■ 39.5012, 51.3054,  
66.8534

■ 33.8527, 47.8329,  
66.4808


■ 42.5324, 53.0562,  
67.0316


■ 32.9563, 47.1852,  
66.4031

■ 46.2053, 55.1384,  
67.2399


■ 32.4456, 46.7370,  
66.3435


■ 50.5549, 57.5701,  
67.4800


 32.3121, 46.6040,  
66.3248

 55.6138, 60.3681,  
67.7534

 61.4124, 63.5481,  
68.0616

 67.9796, 67.1250,  
68.4059

 75.1188, 70.9973,  
68.7771

 75.2486, 71.2568,  
68.8203

# Harmonies

## Analogous

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



36.6305, 49.8644, 48.5218



37.0718, 49.8644, 66.7024



40.1386, 49.8644, 84.6989

# Triad

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



37.0718, 49.8644, 66.7024



57.0750, 49.8644, 79.3243



49.5169, 49.8644, 27.2055

# Complementary

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



37.0718, 49.8644, 66.7024



31.4929, 21.8332, 12.2285

# 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.



55.4763, 49.8644, 32.2055



37.0718, 49.8644, 66.7024



60.0844, 49.8644, 60.5064

# Square

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



37.0718, 49.8644, 66.7024



51.5495, 49.8644, 93.0136



59.4752, 49.8644, 43.5283



43.4692, 49.8644, 28.1593



# Rectangle

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



37.0718, 49.8644, 66.7024



43.4198, 49.8644, 92.9355



59.4752, 49.8644, 43.5283



51.6049, 49.8644, 28.1946

# Sweetspot

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



37.0733, 49.8663, 66.7036



80.5072, 91.9783, 108.1182



28.4600, 47.5722, 17.7974



16.9125, 19.5093, 23.1242



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.



37.0733, 49.8663, 66.7036



55.8538, 77.7135, 106.6642



25.8441, 27.4079, 62.9605



12.1313, 13.3529, 15.1816



20.3690, 29.3847, 41.7907



1.1473, 1.6598, 2.3395



# Inverse Universe

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



40.2886, 24.9387, 59.8190



61.5699, 34.1715, 94.2513



38.5571, 35.9616, 14.5832



12.2972, 12.0036, 14.8407



22.9121, 11.0377, 36.0388

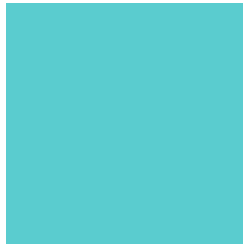


1.2853, 0.6189, 2.0374



# Previews

## White Background



This preview shows how the XYZ color 37.0718, 49.8644, 66.7024 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

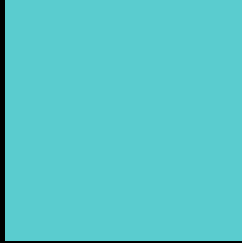
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.0718, 49.8644, 66.7024 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

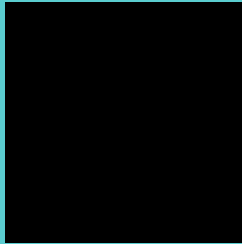
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

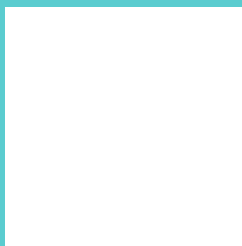
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.0718, 49.8644, 66.7024

## Background



This preview shows how black text looks on a background with the XYZ color 37.0718, 49.8644, 66.7024.



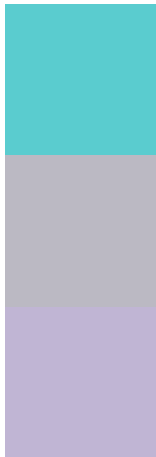
This preview shows how white text looks on a background with the XYZ color 37.0718, 49.8644,



# 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

37.0718, 49.8644, 66.7024

### Protanopia

47.6928, 49.2028, 58.6132

### Deuteranopia

50.1458, 49.0077, 69.1038



## Tritanopia

38.6260, 49.7884, 74.5922

# Trichromacy



## Original Color

37.0718, 49.8644, 66.7024



## Protanomaly

42.1073, 48.4982, 61.1746



## Deuteranomaly

43.3480, 48.0169, 67.9563



## Tritanomaly

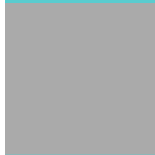
38.1359, 49.9453, 71.9204

# Monochromacy



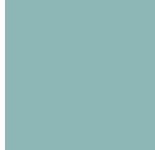
## Original Color

37.0718, 49.8644, 66.7024



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

36.2597, 42.5375, 51.0992

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0718, 49.8644, 66.7024 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(90, 204, 207)` looks like.

```
.text, #text, p{  
    color:rgb(90, 204, 207)  
}
```

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(90, 204, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 204, 207) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0718, 49.8644, 66.7024 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(90, 204, 207) }
```



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

```
.border{ border-color:rgb(90, 204, 207) }
```

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

Here you see how a box with a 4 pixel rgb(90, 204, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 204, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 204, 207);  
box-shadow:4px 4px 4px 4px rgb(90, 204,  
207) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0718, 49.8644, 66.7024 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 204, 207) }
```

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

```
.background{ background-color: rgb(90, 204,  
207) }
```

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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