

# Converting Colors

XYZ(37.6424, 48.7368, 67.7448)

Have a look what the booklet for  
XYZ(37.6424, 48.7368, 67.7448)  
contains.

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# Color

**XYZ(37.6424, 48.7368,  
67.7448)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66C8D1
RGB	102, 200, 209
RGB Percent	40%, 78%, 82%
CMY	0.6000, 0.2157, 0.1804
CMYK	0.51, 0.04, 0.00, 0.18
HSL	185°, 54%, 61%
HSV	185°, 51%, 82%
XYZ	37.6424, 48.7368, 67.7448
YIQ	171.7240, -61.2970, -17.9770

# Conversions

## Conversions Part 2

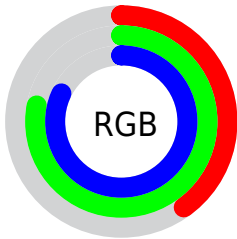
Format	Color
<a href="#">RYB</a>	<a href="#">102, 153, 209</a>
Decimal	<a href="#">6736081</a>
CIELab	<a href="#">75.29, -26.30, -13.35</a>
CIELCh	<a href="#">75, 29.490, 206.912</a>
Yxy	<a href="#">48.7368, 0.2442, 0.3162</a>
Android (android.graphics.Color)	<a href="#">4284926161</a> ( <a href="#">0xFF66C8D1</a> )
YUV	<a href="#">171.7240, 18.3771, -61.1479</a>
Hunter-Lab	<a href="#">69.8117, -25.9236, -8.6664</a>

# Details

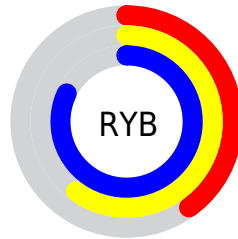
The XYZ color **37.6424, 48.7368, 67.7448** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **34.3782, 25.8845, 15.7559**, and the grayscale version is **39.0069, 41.0383, 44.6907**.

A 20% lighter version of the original color is **68.3072, 86.2136, 107.6485**, and **16.9582, 23.3176, 34.6173** is the 20% darker color. If you saturate the color by 10%, you get **35.1614, 46.8580, 67.5138**, and if you desaturate by 10%, it is **40.7281, 50.9364, 68.0076**.

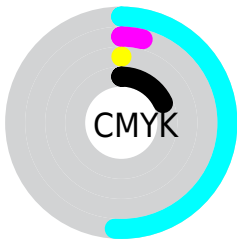
# Distribution



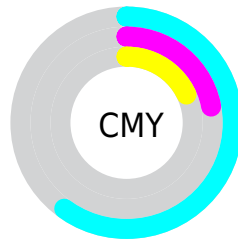
- Red (40%)
- Green (78%)
- Blue (82%)



- Red (40%)
- Yellow (60%)
- Blue (82%)



- Cyan (51%)
- Magenta (4%)
- Yellow (0%)
- Black (18%)



- Cyan (60%)
- Magenta (22%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6424, 48.7368, 67.7448 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 37.6424, 48.7368, 67.7448 by changing the saturation by 10% instead.



37.6424, 48.7368,  
67.7448

37.6424, 48.7368,  
67.7448

327.3909,  
381.7052, 471.1648

25.8812, 34.4107,  
49.2248

70.8671, 88.3004,  
117.6377

16.8670, 23.2093,  
34.4309

93.0614, 114.3068,  
149.8477

10.2344, 14.7481,  
22.9448

119.4641,  
144.9753, 187.4581

5.6181, 8.6428,  
14.3479

150.4405,  
180.6905, 230.8874

2.6527, 4.5089,  
8.2215

186.3560,  
221.8367, 280.5542

0.9729, 1.9621,  
4.1472

227.5760,

0.0000, 0.5853,

268.7983, 336.8770

1.7064

274.4659,  
321.9597, 400.2743

■ 0.0000, 0.0000,  
0.3651

■ 0.0000, 0.0000,  
0.0000

■ 37.6424, 48.7368,  
67.7448

■ 37.6424, 48.7368,  
67.7448

■ 35.1614, 46.8580,  
67.5138

■ 40.7281, 50.9364,  
68.0076

■ 33.2349, 45.2709,  
67.3090


■ 44.4550, 53.4725,  
68.3007


■ 31.8118, 43.9503,  
67.1291


■ 48.8621, 56.3662,  
68.6269


■ 30.8298, 42.8639,  
66.9712


■ 53.9838, 59.6353,  
68.9880


 30.2324, 42.0508,  
66.8457

 59.8523, 63.2965,  
69.3854

 66.4979, 67.3653,  
69.8205

 73.9490, 71.8564,  
70.2946

 76.8117, 73.9893,  
70.5554

 77.2591, 74.8841,  
70.7046

# Harmonies

## Analogous

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



36.6816, 48.7368, 51.4756



37.6424, 48.7368, 67.7448



40.8664, 48.7368, 82.1862

# Triad

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



37.6424, 48.7368, 67.7448



55.6086, 48.7368, 71.0726



46.8861, 48.7368, 28.5059

# Complementary

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



37.6424, 48.7368, 67.7448



34.3782, 25.8845, 15.7559

# 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.



52.2446, 48.7368, 31.7925



37.6424, 48.7368, 67.7448



57.5208, 48.7368, 54.6890

# Square

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



37.6424, 48.7368, 67.7448



51.1989, 48.7368, 84.3557



56.2447, 48.7368, 40.6774



41.7667, 48.7368, 30.6643



# Rectangle

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



37.6424, 48.7368, 67.7448



44.0042, 48.7368, 87.7449



56.2447, 48.7368, 40.6774



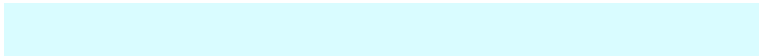
48.7215, 48.7368, 28.9920

# Sweetspot

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



37.6439, 48.7387, 67.7460



81.3334, 91.4182, 107.9665



31.1458, 49.5726, 22.9431



17.0424, 19.3334, 23.0834



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.



37.6439, 48.7387, 67.7460



54.9728, 73.3539, 105.8691



27.3584, 28.1677, 64.3175



12.0698, 13.2299, 15.1611



18.6757, 25.9979, 41.2263



1.0699, 1.5049, 2.3137



# Inverse Universe

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



41.4725, 27.2295, 57.7156



61.7594, 36.6751, 87.7643



42.0441, 41.2163, 18.3112



12.2661, 11.9912, 14.6772



22.0573, 10.6958, 31.5378

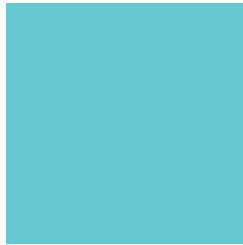


1.2462, 0.6032, 1.8315



# Previews

## White Background



This preview shows how the XYZ color 37.6424, 48.7368, 67.7448 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

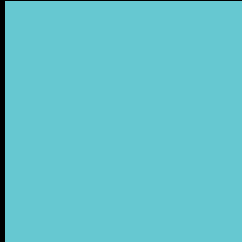
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6424, 48.7368, 67.7448 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

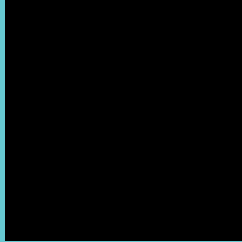
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.6424, 48.7368, 67.7448**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6424, 48.7368, 67.7448.



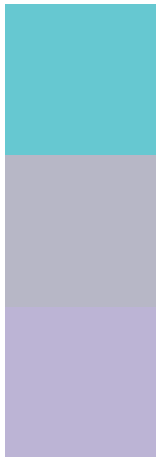
This preview shows how white text looks on a background with the XYZ color 37.6424, 48.7368,



# 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

37.6424, 48.7368, 67.7448

### Protanopia

46.6550, 48.0115, 60.2342

### Deuteranopia

49.0705, 48.1380, 69.6561



## Tritanopia

38.3981, 48.6962, 71.6655

# Trichromacy



**Original Color**

37.6424, 48.7368, 67.7448

**Protanomaly**

42.1847, 47.5295, 62.8279

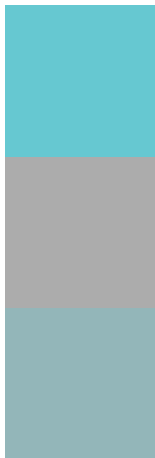
**Deuteranomaly**

43.5586, 47.4622, 69.1527

**Tritanomaly**

38.0272, 48.5345, 70.3146

# Monochromacy



**Original Color**

37.6424, 48.7368, 67.7448

**Achromatopsia**

39.2122, 41.2543, 44.9259

**Achromatomaly**

37.5175, 43.1617, 52.2526

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6424, 48.7368, 67.7448 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(102, 200, 209)` looks like.

```
.text, #text, p{  
    color:rgb(102, 200, 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(102, 200, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 200, 209) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6424, 48.7368, 67.7448 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(102, 200, 209) }
```



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

```
.border{ border-color:rgb(102, 200, 209) }
```

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

Here you see how a box with a 4 pixel rgb(102, 200, 209) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 200, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 200, 209);  
box-shadow:4px 4px 4px 4px rgb(102, 200,  
209) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6424, 48.7368, 67.7448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 200, 209) }
```

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

```
.background{ background-color: rgb(102,  
200, 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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