

# Converting Colors

XYZ(38.5316, 46.4281, 6.9307)

Have a look what the booklet for  
XYZ(38.5316, 46.4281, 6.9307)  
contains.

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# Color

**XYZ(38.7223, 46.6578,  
6.9650)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCBC00
RGB	188, 188, 0
RGB Percent	74%, 74%, 0%
CMY	0.2627, 0.2627, 0.9999
CMYK	0.00, 0.00, 1.00, 0.26
HSL	60°, 100%, 37%
HSV	60°, 100%, 74%
XYZ	38.7223, 46.6578, 6.9650
YIQ	166.5680, 60.3480, -58.4680

# Conversions

## Conversions Part 2

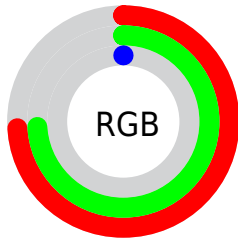
Format	Color
<a href="#">RYB</a>	0, 188, 0
Decimal	12368896
CIELab	73.97, -17.14, 75.13
CIELCh	74, 77.065, 102.852
Yxy	46.6578, 0.4193, 0.5053
Android (android.graphics.Color)	4290558976 (0xFFBCBC00)
YUV	166.5680, -82.1180, 18.7959
Hunter-Lab	68.3065, -18.3465, 41.7689

# Details

The XYZ color **38.7223, 46.6578, 6.9650** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **9.0782, 3.6317, 47.8024**, and the grayscale version is **36.8887, 38.8098, 42.2638**.

A 20% lighter version of the original color is **72.5473, 85.2519, 20.4162**, and **17.8699, 22.0738, 3.3188** is the 20% darker color. If you saturate the color by 10%, you get **38.7232, 46.6599, 6.9653**, and if you desaturate by 10%, it is **38.8394, 46.7064, 7.5763**.

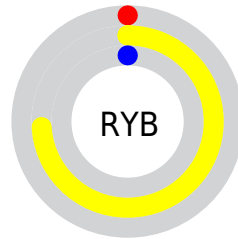
# Distribution



Red (74%)

Green (74%)

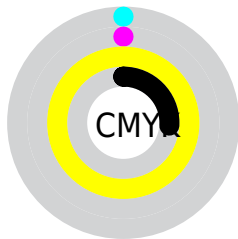
Blue (0%)



Red (0%)

Yellow (74%)

Blue (0%)

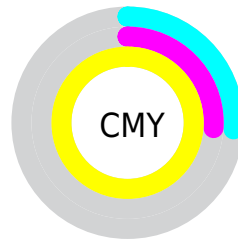


Cyan (0%)

Magenta (0%)

Yellow (100%)

Black (26%)



Cyan (26%)

Magenta (26%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7223, 46.6578, 6.9650 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 38.7223, 46.6578, 6.9650 by changing the saturation by 10% instead.





 38.7223, 46.6578,  
6.9650


 38.7223, 46.6578,  
6.9650


331.9359,  
373.4469, 176.9925

 26.7235, 32.7652,  
3.3621


 72.5107, 85.2026,  
20.4144

 17.5012, 21.9466,  
1.2824


 95.0310, 110.6236,  
31.0981

 10.6900, 13.8177,  
0.0473


 121.7892,  
140.6562, 44.9790

 5.9245, 7.9940,  
0.0000

 153.1506,  
175.6848, 62.4758

 2.8395, 4.0911,  
0.0000

 189.4807,  
216.0938, 84.0070

 1.0694, 1.7247,  
0.0000

 231.1447,

 0.0000, 0.4395,

262.2675, 109.9912

0.0000

278.5080,  
314.5905, 140.8468

■ 0.0000, 0.0000,  
0.0000

■ 38.7223, 46.6578,  
6.9650

■ 38.7223, 46.6578,  
6.9650

■ 38.7232, 46.6599,  
6.9653

■ 38.8394, 46.7064,  
7.5763

■ 39.0673, 46.7976,  
8.7757

■ 39.4479, 46.9498,  
10.7789

■ 40.0015, 47.1713,  
13.6934

■ 40.7454, 47.4689,  
17.6102

■ 41.6948, 47.8487,  
22.6092

■ 42.8634, 48.3161,  
28.7622

■ 44.2637, 48.8762,  
36.1352

■ 45.9071, 49.5336,  
44.7888

# Harmonies

## Analogous

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



52.6076, 46.6578, 7.3630



38.7223, 46.6578, 6.9650



28.6868, 46.6578, 13.0560

# Triad

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



38.7223, 46.6578, 6.9650



27.6512, 46.6578, 121.6568



74.7105, 46.6578, 76.5569

# Complementary

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



38.7223, 46.6578, 6.9650



9.0782, 3.6317, 47.8024

# 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.



64.8672, 46.6578, 128.9836



38.7223, 46.6578, 6.9650



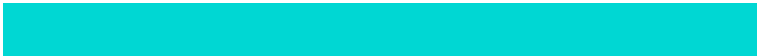
36.9995, 46.6578, 162.9350

# Square

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



38.7223, 46.6578, 6.9650



23.2424, 46.6578, 69.5738



50.4912, 46.6578, 166.1511



75.4392, 46.6578, 35.7532



# Rectangle

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



38.7223, 46.6578, 6.9650



24.7362, 46.6578, 23.4934



50.4912, 46.6578, 166.1511



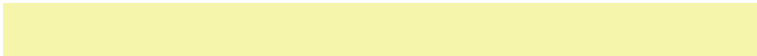
72.2775, 46.6578, 93.7753

# Sweetspot

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



38.7234, 46.6600, 6.9660



77.5627, 87.5140, 51.5121



20.7406, 10.6925, 0.9713



16.4786, 18.7391, 10.0195



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



38.7234, 46.6600, 6.9660



70.1758, 84.5591, 12.6229



22.6019, 38.3491, 6.2115



10.3223, 11.1205, 10.1791



26.3632, 31.7666, 4.7421



1.0327, 1.2443, 0.1858



# Inverse Universe

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



9.0782, 3.6317, 47.8024



16.4510, 6.5804, 86.6293



13.6953, 6.0119, 48.0184



9.0166, 9.2254, 11.9777



6.1802, 2.4721, 32.5443



0.2421, 0.0968, 1.2748



# Previews

## White Background



This preview shows how the XYZ color 38.7223, 46.6578, 6.9650 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 38.7223, 46.6578, 6.9650 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 38.7223, 46.6578, 6.9650**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7223, 46.6578, 6.9650.



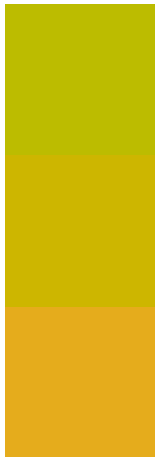
This preview shows how white text looks on a background with the XYZ color 38.7223, 46.6578,



# 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

38.7223, 46.6578, 6.9650

### Protanopia

41.9048, 46.4350, 6.7542

### Deuteranopia

47.2752, 46.2469, 7.5335



## Tritanopia

48.2265, 46.5701, 54.0241

# Trichromacy



## Original Color

38.7223, 46.6578, 6.9650

## Protanomaly

40.6937, 46.4231, 6.8158

## Deuteranomaly

43.7611, 46.1806, 7.1796

## Tritanomaly

42.4764, 45.7343, 24.3582

# Monochromacy



## Original Color

38.7223, 46.6578, 6.9650

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

35.6107, 40.8145, 19.6368

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7223, 46.6578, 6.9650 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(188, 188, 0)` looks like.

```
.text, #text, p{  
    color:rgb(188, 188, 0)  
}
```

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(188, 188, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 188, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7223, 46.6578, 6.9650 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(188, 188, 0) }
```



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

```
.border{ border-color:rgb(188, 188, 0) }
```

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

Here you see how a box with a 4 pixel rgb(188, 188, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 188, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 188, 0);  
box-shadow:4px 4px 4px 4px rgb(188, 188,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7223, 46.6578, 6.9650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 188, 0) }
```

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

```
.background{ background-color: rgb(188,  
188, 0) }
```

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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