

# Converting Colors

XYZ(38.1002, 45.9299, 97.8007)

Have a look what the booklet for  
XYZ(38.1002, 45.9299, 97.8007)  
contains.

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# Color

**XYZ(38.1699, 45.9748,  
98.1290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	39C1FB
RGB	57, 193, 251
RGB Percent	22%, 76%, 98%
CMY	0.7764, 0.2431, 0.0157
CMYK	0.77, 0.23, 0.00, 0.02
HSL	198°, 96%, 60%
HSV	198°, 77%, 98%
XYZ	38.1699, 45.9748, 98.1290
YIQ	158.9480, -99.6740, -10.7940

# Conversions

## Conversions Part 2

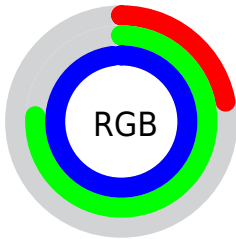
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	57, 137, 251
Decimal	3785211
CIE <sub>Lab</sub>	73.53, -17.01, -38.83
CIE <sub>LCh</sub>	74, 42.389, 246.340
Yxy	45.9748, 0.2094, 0.2522
Android (android.graphics.Color)	4281975291 (0xFF39C1FB)
YUV	158.9480, 45.3816, -89.4084
Hunter-Lab	67.8047, -18.1737, -38.3429

# Details

The XYZ color **38.1699, 45.9748, 98.1290** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **46.6554, 33.0699, 7.7972**, and the grayscale version is **32.7655, 34.4718, 37.5398**.

A 20% lighter version of the original color is **61.2858, 79.7967, 106.7799**, and **18.9702, 22.3603, 54.3551** is the 20% darker color. If you saturate the color by 10%, you get **35.4591, 42.1774, 97.5398**, and if you desaturate by 10%, it is **41.6745, 50.3079, 98.7816**.

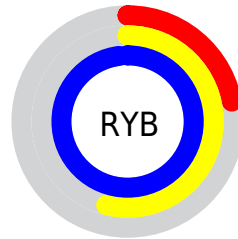
# Distribution



Red (22%)

Green (76%)

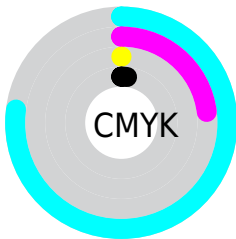
Blue (98%)



Red (22%)

Yellow (54%)

Blue (98%)

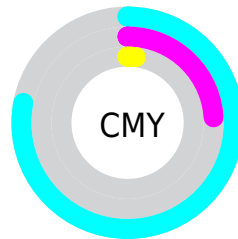


Cyan (77%)

Magenta (23%)

Yellow (0%)

Black (2%)



Cyan (78%)

Magenta (24%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1699, 45.9748, 98.1290 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 38.1699, 45.9748, 98.1290 by changing the saturation by 10% instead.



■ 38.1699, 45.9748,  
98.1290

■ 38.1699, 45.9748,  
98.1290

329.6165,  
370.7073, 575.3726

■ 26.2924, 32.2259,  
74.1308

■ 71.6707, 84.1813,  
160.6130

■ 17.1763, 21.5341,  
54.4036

■ 94.0247, 109.4077,  
199.9358

■ 10.4564, 13.5150,  
38.5291

■ 120.6016,  
139.2287, 245.2039

■ 5.7672, 7.7841,  
26.0886

■ 151.7667,  
174.0288, 296.8359

■ 2.7433, 3.9571,  
16.6636

187.8854,  
214.1923, 355.2502

■ 1.0195, 1.6496,  
9.8355

229.3230,

■ 0.0000, 0.3907,

260.1036, 420.8654

5.1858

276.4449,  
312.1472, 494.1000

■ 0.0000, 0.0000,  
2.2961

■ 0.0000, 0.0000,  
0.7290

■ 38.1699, 45.9748,  
98.1290

■ 38.1699, 45.9748,  
98.1290

■ 35.4591, 42.1774,  
97.5398

■ 41.6745, 50.3079,  
98.7816

■ 33.4171, 38.8471,  
97.0046

■ 46.0609, 55.2217,  
99.4989

■ 32.9293, 37.9982,  
96.8665

■ 51.4102, 60.7603,  
100.2860

■ 57.7921, 66.9616,  
101.1466

■ 65.2697, 73.8597,  
102.0839

■ 73.9009, 81.4860,  
103.1011

■ 83.7391, 89.8698,  
104.2008

■ 93.7904, 98.5003,  
105.3368

■ 94.4128, 99.7451,  
105.5443

# Harmonies

## Analogous

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



33.0945, 45.9748, 78.6883



38.1699, 45.9748, 98.1290



45.3071, 45.9748, 103.2503

# Triad

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



38.1699, 45.9748, 98.1290



59.6285, 45.9748, 45.6416



35.7082, 45.9748, 23.6459

# Complementary

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



38.1699, 45.9748, 98.1290



46.6554, 33.0699, 7.7972

# 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.



42.1268, 45.9748, 19.2403



38.1699, 45.9748, 98.1290



56.3534, 45.9748, 29.3823

# Square

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



38.1699, 45.9748, 98.1290



58.2583, 45.9748, 68.4995



49.7349, 45.9748, 20.9901



31.7909, 45.9748, 35.2657



# Rectangle

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



38.1699, 45.9748, 98.1290



50.4031, 45.9748, 96.8580



49.7349, 45.9748, 20.9901



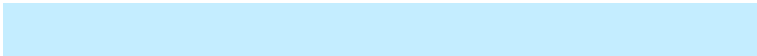
37.6150, 45.9748, 21.4499

# Sweetspot

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



38.1715, 45.9764, 98.1301



71.3249, 79.8404, 106.2593



39.1092, 71.0347, 26.9728



14.5982, 16.4925, 22.6639



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

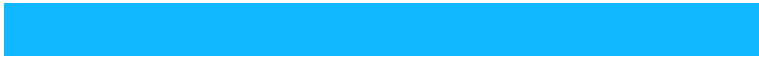


# Same Dimension

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



38.1715, 45.9764, 98.1301



35.4570, 41.6678, 100.7816



23.5673, 16.7679, 93.2621



17.3020, 18.6809, 22.0792



17.4422, 20.2400, 50.9610



1.7080, 2.0597, 4.7507



# Inverse Universe

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



50.8739, 27.2877, 53.0391



50.1156, 25.1525, 47.6134



63.3163, 66.3917, 13.3508



17.7590, 17.4310, 20.5866



25.0961, 12.4541, 23.0120

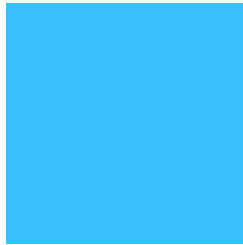


2.3711, 1.1722, 2.3774



# Previews

## White Background



This preview shows how the XYZ color 38.1699, 45.9748, 98.1290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

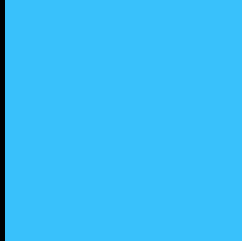
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.1699, 45.9748, 98.1290 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

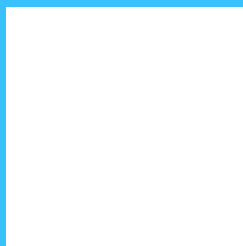
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 38.1699, 45.9748, 98.1290

## Background



This preview shows how black text looks on a background with the XYZ color 38.1699, 45.9748, 98.1290.



This preview shows how white text looks on a background with the XYZ color 38.1699, 45.9748,



# 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

38.1699, 45.9748, 98.1290

### Protanopia

46.2024, 45.3577, 87.9811

### Deuteranopia

46.5346, 45.2436, 100.8880



## Tritanopia

32.6892, 45.7531, 71.3983

# Trichromacy



## Original Color

38.1699, 45.9748, 98.1290

## Protanomaly

41.4233, 44.6231, 91.2239

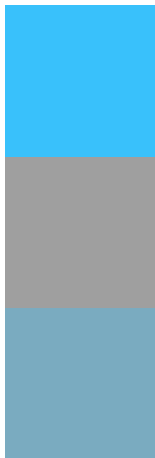
## Deuteranomaly

42.1590, 44.8046, 100.1921

## Tritanomaly

34.2791, 45.6934, 80.4118

# Monochromacy



## Original Color

38.1699, 45.9748, 98.1290

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

32.1034, 37.0692, 55.3322

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1699, 45.9748, 98.1290 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(57, 193, 251)` looks like.

```
.text, #text, p{  
    color:rgb(57, 193, 251)  
}
```

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(57, 193, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 193, 251) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1699, 45.9748, 98.1290 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(57, 193, 251) }
```



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

```
.border{ border-color:rgb(57, 193, 251) }
```

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

Here you see how a box with a 4 pixel rgb(57, 193, 251) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 193, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 193, 251);  
box-shadow:4px 4px 4px 4px rgb(57, 193,  
251) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1699, 45.9748, 98.1290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 193, 251) }
```

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

```
.background{ background-color: rgb(57, 193,  
251) }
```

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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