

# Converting Colors

XYZ(38.5587, 50.9388, 76.8017)

Have a look what the booklet for  
XYZ(38.5587, 50.9388, 76.8017)  
contains.

<b>XYZ(38.4958, 50.7304, 76.8702)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(38.4958, 50.7304,  
76.8702)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52CDDE
RGB	82, 205, 222
RGB Percent	32%, 80%, 87%
CMY	0.6784, 0.1961, 0.1294
CMYK	0.63, 0.08, 0.00, 0.13
HSL	187°, 68%, 60%
HSV	187°, 63%, 87%
XYZ	38.4958, 50.7304, 76.8702
YIQ	170.1610, -78.7650, -20.7890

# Conversions

## Conversions Part 2

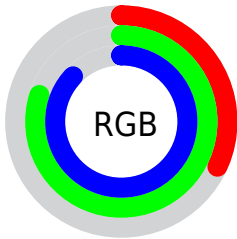
Format	Color
<a href="#">RYB</a>	<a href="#">82, 147, 222</a>
Decimal	<a href="#">5426654</a>
CIELab	<a href="#">76.52, -28.84, -18.58</a>
CIELCh	<a href="#">77, 34.301, 212.790</a>
Yxy	<a href="#">50.7304, 0.2318, 0.3054</a>
Android (android.graphics.Color)	<a href="#">4283616734 (0xFF52CDDE)</a>
YUV	<a href="#">170.1610, 25.5566, -77.3172</a>
Hunter-Lab	<a href="#">71.2253, -28.1686, -14.1313</a>

# Details

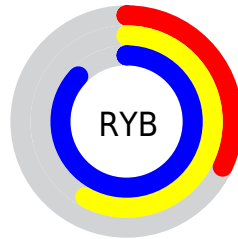
The XYZ color **38.4958, 50.7304, 76.8702** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **36.1103, 25.0639, 10.9188**, and the grayscale version is **38.1952, 40.1843, 43.7607**.

A 20% lighter version of the original color is **65.4871, 84.7597, 107.5165**, and **17.8814, 24.6027, 40.3656** is the 20% darker color. If you saturate the color by 10%, you get **36.2296, 48.6142, 76.5821**, and if you desaturate by 10%, it is **41.4005, 53.1944, 77.1936**.

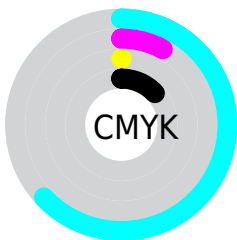
# Distribution



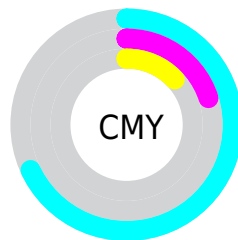
- Red (32%)
- Green (80%)
- Blue (87%)



- Red (32%)
- Yellow (58%)
- Blue (87%)



- Cyan (63%)
- Magenta (8%)
- Yellow (0%)
- Black (13%)



- Cyan (68%)
- Magenta (20%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.4958, 50.7304, 76.8702 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 38.4958, 50.7304, 76.8702 by changing the saturation by 10% instead.



38.4958, 50.7304,  
76.8702

38.4958, 50.7304,  
76.8702

330.9863,  
389.5154, 503.7473

26.5467, 35.9941,  
56.6354

72.1664, 91.2561,  
130.7276

17.3679, 24.4296,  
40.3052

94.6187, 117.8144,  
165.1873

10.5941, 15.6526,  
27.4610

121.3027,  
149.0820, 205.2257

5.8598, 9.2787,  
17.6842

152.5838,  
185.4435, 251.2613

2.7999, 4.9234,  
10.5564

188.8273,  
227.2831, 303.7127

1.0488, 2.2024,  
5.6590

230.3987,

0.0000, 0.7213,

274.9854, 362.9985

2.5735

277.6632,  
328.9347, 429.5372

■ 0.0000, 0.0000,  
0.8787

■ 0.0000, 0.0000,  
0.0000

■ 38.4958, 50.7304,  
76.8702

■ 38.4958, 50.7304,  
76.8702

■ 36.2296, 48.6142,  
76.5821

■ 41.4005, 53.1944,  
77.1936

■ 34.5344, 46.8077,  
76.3228

■ 44.9935, 56.0288,  
77.5514

■ 33.3360, 45.2735,  
76.0898

■ 49.3249, 59.2604,  
77.9468

■ 32.7103, 44.3247,  
75.9396

■ 54.4387, 62.9122,  
78.3822

60.3757, 67.0051,  
78.8593

67.1736, 71.5588,  
79.3799

74.8679, 76.5915,  
79.9458

81.7759, 81.2359,  
80.4782

82.5172, 82.7184,  
80.7253

# Harmonies

## Analogous

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



36.8269, 50.7304, 56.9897



38.4958, 50.7304, 76.8702



42.7491, 50.7304, 93.3756

# Triad

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



38.4958, 50.7304, 76.8702



60.1516, 50.7304, 73.1856



47.6146, 50.7304, 26.7416

# Complementary

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



38.4958, 50.7304, 76.8702



36.1103, 25.0639, 10.9188

# 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.



54.1339, 50.7304, 29.2198



38.4958, 50.7304, 76.8702



61.7440, 50.7304, 53.5202

# Square

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



38.4958, 50.7304, 76.8702



55.2750, 50.7304, 90.9355



59.4524, 50.7304, 38.0984



41.7882, 50.7304, 30.3691

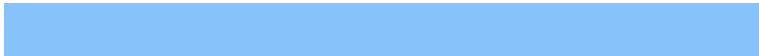


# Rectangle

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



38.4958, 50.7304, 76.8702



46.6729, 50.7304, 98.6688



59.4524, 50.7304, 38.0984



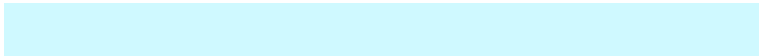
49.7962, 50.7304, 26.8896

# Sweetspot

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



38.4974, 50.7323, 76.8714



77.5685, 88.2445, 107.5523



31.8227, 54.9257, 20.5642



16.1194, 18.5519, 22.9812



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

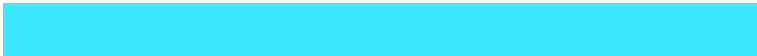


# Same Dimension

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



38.4974, 50.7323, 76.8714



48.6940, 65.6329, 104.7097



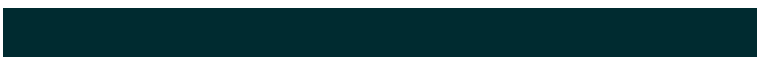
25.4233, 24.5842, 72.5134



13.9671, 15.2733, 17.5996



19.4841, 26.4377, 45.1244



1.3911, 1.9136, 3.1413



# Inverse Universe

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



44.1623, 25.9735, 60.4453



57.4095, 30.4149, 78.7936



45.7128, 44.2690, 14.1196



14.2196, 13.9055, 16.9267



23.7749, 11.5769, 31.8098

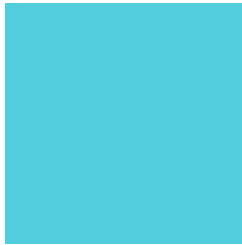


1.6684, 0.8106, 2.3126



# Previews

## White Background



This preview shows how the XYZ color 38.4958, 50.7304, 76.8702 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

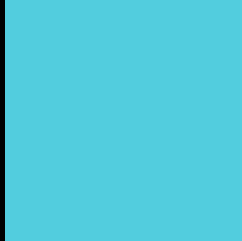
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.4958, 50.7304, 76.8702 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

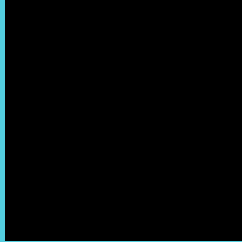
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.4958, 50.7304, 76.8702**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.4958, 50.7304, 76.8702.



This preview shows how white text looks on a background with the XYZ color 38.4958, 50.7304,



# 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

38.4958, 50.7304, 76.8702

### Protanopia

48.9589, 49.9613, 68.0359

### Deuteranopia

51.0483, 49.8521, 79.6049



## Tritanopia

38.4958, 50.7304, 76.8702

# Trichromacy



## Original Color

38.4958, 50.7304, 76.8702



## Protanomaly

43.2402, 49.1980, 70.8355



## Deuteranomaly

44.4342, 48.9937, 78.3490



## Tritanomaly

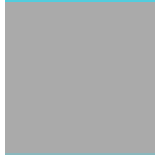
38.4958, 50.7304, 76.8702

# Monochromacy



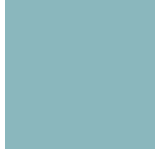
## Original Color

38.4958, 50.7304, 76.8702



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

36.6000, 42.9444, 54.5042

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.4958, 50.7304, 76.8702 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(82, 205, 222)` looks like.

```
.text, #text, p{  
    color:rgb(82, 205, 222)  
}
```

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(82, 205, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 205, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 38.4958, 50.7304, 76.8702 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(82, 205, 222) }
```



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

```
.border{ border-color:rgb(82, 205, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(82, 205, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 205, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 205, 222);  
box-shadow:4px 4px 4px 4px rgb(82, 205,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.4958, 50.7304, 76.8702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 205, 222) }
```

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

```
.background{ background-color: rgb(82, 205,  
222) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor