

# Converting Colors

XYZ(38.8888, 51.1854, 49.4251)

Have a look what the booklet for  
XYZ(38.8888, 51.1854, 49.4251)  
contains.

<b>XYZ(38.8888, 51.1854, 49.4251)</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(38.8888, 51.1854,  
49.4251)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83CCB1
RGB	131, 204, 177
RGB Percent	51%, 80%, 69%
CMY	0.4863, 0.2000, 0.3059
CMYK	0.36, 0.00, 0.13, 0.20
HSL	158°, 42%, 66%
HSV	158°, 36%, 80%
XYZ	38.8888, 51.1854, 49.4251
YIQ	179.0950, -34.8410, -23.8730

# Conversions

## Conversions Part 2

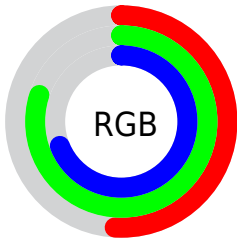
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">131, 176, 204</a>
Decimal	<a href="#">8637617</a>
CIELab	<a href="#">76.79, -28.77, 6.28</a>
CIELCh	<a href="#">77, 29.447, 167.690</a>
Yxy	<a href="#">51.1854, 0.2788, 0.3669</a>
Android (android.graphics.Color)	<a href="#">4286827697 (0xFF83CCB1)</a>
YUV	<a href="#">179.0950, -1.0328, -42.1793</a>
Hunter-Lab	<a href="#">71.5440, -28.1756, 9.1212</a>

# Details

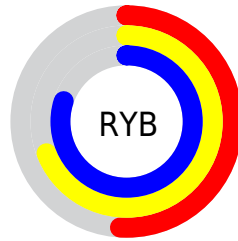
The XYZ color **38.8888, 51.1854, 49.4251** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **39.1915, 31.5400, 36.3721**, and the grayscale version is **42.9182, 45.1533, 49.1719**.

A 20% lighter version of the original color is **70.7177, 87.8423, 90.3188**, and **17.5274, 24.5698, 22.8874** is the 20% darker color. If you saturate the color by 10%, you get **35.3037, 49.4231, 45.4398**, and if you desaturate by 10%, it is **43.1404, 53.2892, 53.6610**.

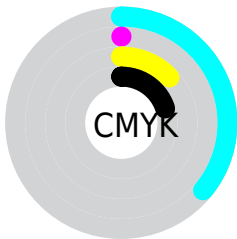
# Distribution



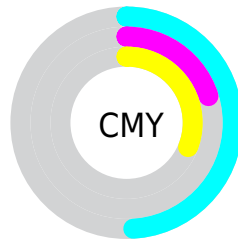
- Red (51%)
- Green (80%)
- Blue (69%)



- Red (51%)
- Yellow (69%)
- Blue (80%)



- Cyan (36%)
- Magenta (0%)
- Yellow (13%)
- Black (20%)



- Cyan (49%)
- Magenta (20%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.8888, 51.1854, 49.4251 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 38.8888, 51.1854, 49.4251 by changing the saturation by 10% instead.



■ 38.8888, 51.1854,  
49.4251

■ 38.8888, 51.1854,  
49.4251

332.6328,  
391.2837, 401.0839

■ 26.8536, 36.3562,  
34.5888

■ 72.7636, 91.9288,  
90.7100

■ 17.5993, 24.7094,  
23.0653

■ 95.3338, 118.6117,  
117.9957

■ 10.7606, 15.8607,  
14.4360

■ 122.1464,  
150.0147, 150.2684

■ 5.9722, 9.4256,  
8.2823

153.5668,  
186.5220, 187.9464

■ 2.8687, 5.0198,  
4.1858

189.9603,  
228.5182, 231.4485

■ 1.0847, 2.2589,  
1.7278

231.6922,

■ 0.0123, 0.7518,

276.3876, 281.1931

0.3797

279.1279,  
330.5147, 337.5987

■ 0.0000, 0.0000,  
0.0000

■ 38.8888, 51.1854,  
49.4251

■ 38.8888, 51.1854,  
49.4251

■ 35.3037, 49.4231,  
45.4398

■ 43.1404, 53.2892,  
53.6610

■ 32.3435, 47.9768,  
41.6962

■ 48.0887, 55.7459,  
58.1489

■ 29.9684, 46.8276,  
38.1902


■ 53.7668, 58.5739,  
62.8948

■ 28.1321, 45.9515,  
34.9159


■ 60.2048, 61.7886,  
67.9034


■ 26.7806, 45.3209,  
31.8669


■ 67.4307, 65.4045,  
73.1791


 25.8476, 44.9016,  
29.0364

 75.4713, 69.4351,  
78.7264

 25.5261, 44.7605,  
27.9051

 77.0918, 70.1508,  
84.2096

 78.1738, 70.5836,  
89.9070

 79.3021, 71.0349,  
95.8490

# Harmonies

## Analogous

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



41.1286, 51.1854, 37.4773



38.8888, 51.1854, 49.4251



39.1141, 51.1854, 65.6162

# Triad

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



38.8888, 51.1854, 49.4251



51.9890, 51.1854, 90.4933



56.2479, 51.1854, 35.9314

# Complementary

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



38.8888, 51.1854, 49.4251



39.1915, 31.5400, 36.3721

# 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.



59.6225, 51.1854, 46.8942



38.8888, 51.1854, 49.4251



57.0371, 51.1854, 79.1204

# Square

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



38.8888, 51.1854, 49.4251



46.3950, 51.1854, 91.5300



59.9219, 51.1854, 62.5543



50.9773, 51.1854, 30.7482



# Rectangle

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



38.8888, 51.1854, 49.4251



40.6327, 51.1854, 76.7439



59.9219, 51.1854, 62.5543



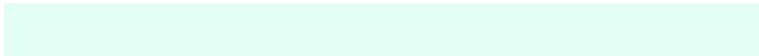
57.6585, 51.1854, 38.9551

# Sweetspot

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



38.8902, 51.1875, 49.4263



83.8470, 94.4124, 99.8903



39.9861, 52.1959, 29.4409



17.6741, 20.0724, 21.1509



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

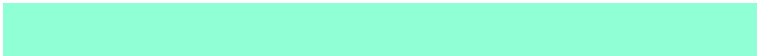


# Same Dimension

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



38.8902, 51.1875, 49.4263



59.6930, 82.4492, 76.6828



39.8844, 48.4342, 64.3758



11.3604, 12.6539, 13.4553



16.1120, 28.1901, 17.8066



0.8671, 1.4686, 1.1075



# Inverse Universe

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



39.1915, 31.5400, 36.3721



60.2721, 45.1592, 51.9431



38.3078, 33.0927, 25.8421



11.3810, 11.2811, 12.5411



16.5242, 8.4203, 5.2130



0.8889, 0.4489, 0.4606



# Previews

## White Background



This preview shows how the XYZ color 38.8888, 51.1854, 49.4251 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

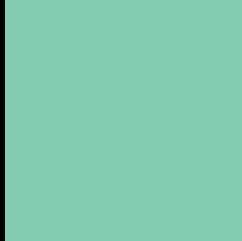
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.8888, 51.1854, 49.4251 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 38.8888, 51.1854, 49.4251**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.8888, 51.1854, 49.4251.



This preview shows how white text looks on a background with the XYZ color 38.8888, 51.1854,



# 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

38.8888, 51.1854, 49.4251

### Protanopia

48.1706, 50.7013, 44.7836

### Deuteranopia

51.4659, 50.3886, 51.2694



## Tritanopia

43.5044, 51.3286, 71.9045

# Trichromacy



## Original Color

38.8888, 51.1854, 49.4251



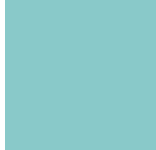
## Protanomaly

43.9718, 50.4464, 46.4493



## Deuteranomaly

45.7077, 49.9460, 50.4115



## Tritanomaly

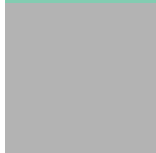
41.7458, 51.3087, 62.9617

# Monochromacy



## Original Color

38.8888, 51.1854, 49.4251



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

40.9194, 46.8622, 49.0081

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.8888, 51.1854, 49.4251 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(131, 204, 177)` looks like.

```
.text, #text, p{  
    color:rgb(131, 204, 177)  
}
```

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(131, 204, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 204, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 38.8888, 51.1854, 49.4251 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(131, 204, 177) }
```



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

```
.border{ border-color:rgb(131, 204, 177) }
```

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

Here you see how a box with a 4 pixel rgb(131, 204, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 204, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 204, 177);  
box-shadow:4px 4px 4px 4px rgb(131, 204,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.8888, 51.1854, 49.4251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 204, 177) }
```

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

```
.background{ background-color: rgb(131,  
204, 177) }
```

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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