

# Converting Colors

XYZ(33.8132, 44.6825, 48.6249)

Have a look what the booklet for  
XYZ(33.8132, 44.6825, 48.6249)  
contains.

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# Color

**XYZ(33.8158, 44.8250,  
48.4648)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 71C1B1                       |
| RGB         | 113, 193, 177                |
| RGB Percent | 44%, 76%, 69%                |
| CMY         | 0.5569, 0.2431, 0.3059       |
| CMYK        | 0.41, 0.00, 0.08, 0.24       |
| HSL         | 168°, 39%, 60%               |
| HSV         | 168°, 41%, 76%               |
| XYZ         | 33.8158, 44.8250, 48.4648    |
| YIQ         | 167.2560, -42.5440, -21.9360 |

# Conversions

## Conversions Part 2

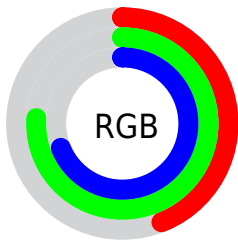
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">113, 157, 193</a>                  |
| Decimal                             | <a href="#">7455153</a>                        |
| CIELab                              | <a href="#">72.78, -28.36, 0.36</a>            |
| CIELCh                              | <a href="#">73, 28.366, 179.276</a>            |
| Yxy                                 | <a href="#">44.8250, 0.2660, 0.3527</a>        |
| Android<br>(android.graphics.Color) | <a href="#">4285645233<br/>(0xFF71C1B1)</a>    |
| YUV                                 | <a href="#">167.2560, 4.8038,<br/>-47.5825</a> |
| Hunter-Lab                          | <a href="#">66.9515, -27.0084,<br/>3.9472</a>  |

# Details

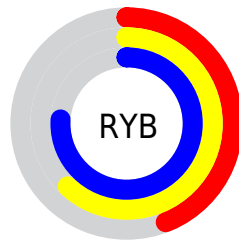
The XYZ color **33.8158, 44.8250, 48.4648** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **31.8614, 24.7338, 23.8653**, and the grayscale version is **36.8486, 38.7676, 42.2179**.

A 20% lighter version of the original color is **65.0420, 82.5792, 89.6021**, and **14.6792, 20.8454, 22.6519** is the 20% darker color. If you saturate the color by 10%, you get **31.2128, 43.5281, 46.3634**, and if you desaturate by 10%, it is **36.9602, 46.4020, 50.6503**.

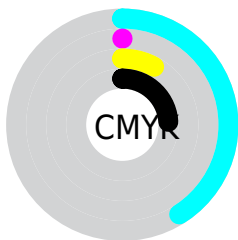
# Distribution



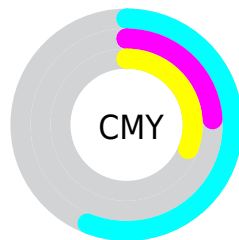
- Red (44%)
- Green (76%)
- Blue (69%)



- Red (44%)
- Yellow (62%)
- Blue (76%)



- Cyan (41%)
- Magenta (0%)
- Yellow (8%)
- Black (24%)



- Cyan (56%)
- Magenta (24%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8158, 44.8250, 48.4648 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 33.8158, 44.8250, 48.4648 by changing the saturation by 10% instead.




 33.8158, 44.8250,  
48.4648


 33.8158, 44.8250,  
48.4648


310.9103,  
366.0643, 397.1933


 22.9143, 31.3196,  
33.8325


 64.9933, 82.4577,  
89.2688

 14.6506, 20.8423,  
22.4886


 86.0001, 107.3539,  
116.2776

 8.6593, 13.0088,  
14.0146

 111.1060,  
136.8157, 148.2489

 4.5749, 7.4346,  
7.9920

140.6764,  
171.2277, 185.6014

 2.0323, 3.7354,  
4.0021

175.0767,  
210.9741, 228.7535

 0.6520, 1.5267,  
1.6265

214.6722,

 0.0000, 0.3074,

256.4394, 278.1238

0.3096

259.8283,  
308.0081, 334.1309

■ 0.0000, 0.0000,  
0.0000

■ 33.8158, 44.8250,  
48.4648

■ 33.8158, 44.8250,  
48.4648

■ 31.2128, 43.5281,  
46.3634

■ 36.9602, 46.4020,  
50.6503

■ 29.1136, 42.4885,  
44.3409

■ 40.6732, 48.2698,  
52.9188

■ 27.4817, 41.6886,  
42.3963


■ 44.9844, 50.4447,  
55.2730


■ 26.2739, 41.1060,  
40.5269


■ 49.9206, 52.9404,  
57.7147


■ 25.4388, 40.7144,  
38.7299


■ 55.5066, 55.7699,  
60.2454

 24.9367, 40.4879,  
37.2467

 61.7661, 58.9452,  
62.8667

 68.7215, 62.4780,  
65.5800

 71.6819, 63.9500,  
68.1664

 72.1624, 64.1422,  
70.6970

# Harmonies

## Analogous

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



34.9680, 44.8250, 36.2148



33.8158, 44.8250, 48.4648



34.8632, 44.8250, 63.3151

# Triad

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



33.8158, 44.8250, 48.4648



47.4081, 44.8250, 76.5079



47.6311, 44.8250, 28.9995

# Complementary

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



33.8158, 44.8250, 48.4648



31.8614, 24.7338, 23.8653

# 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.



51.4152, 44.8250, 36.7036



33.8158, 44.8250, 48.4648



51.2796, 44.8250, 64.0239

# Square

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



33.8158, 44.8250, 48.4648



42.4852, 44.8250, 81.2777



52.7983, 44.8250, 49.1504



42.7246, 44.8250, 26.3915



# Rectangle

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



33.8158, 44.8250, 48.4648



36.7175, 44.8250, 72.3946



52.7983, 44.8250, 49.1504



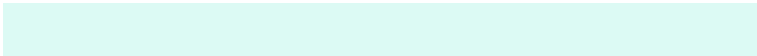
49.0900, 44.8250, 30.9954

# Sweetspot

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



33.8171, 44.8268, 48.4658



79.9573, 90.0367, 98.6743



31.3091, 44.1063, 22.4867



16.9247, 19.2003, 21.0485



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



33.8171, 44.8268, 48.4658



56.1826, 78.0965, 83.2807



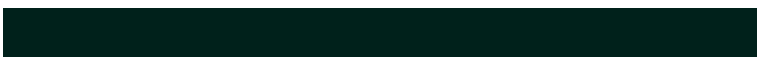
30.8743, 36.2371, 55.8214



10.2794, 11.3928, 12.4746



16.6141, 26.9397, 24.9249



0.7403, 1.1730, 1.1954



# Inverse Universe

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



31.8614, 24.7338, 23.8653



52.2162, 37.1603, 33.2506



33.7317, 30.0456, 19.6450



10.1537, 10.1101, 10.9001



14.8900, 7.6458, 2.0670

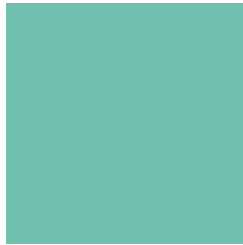


0.6683, 0.3403, 0.2209



# Previews

## White Background



This preview shows how the XYZ color 33.8158, 44.8250, 48.4648 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

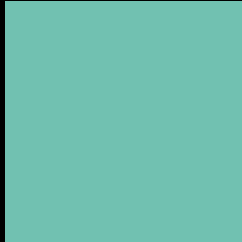
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.8158, 44.8250, 48.4648 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

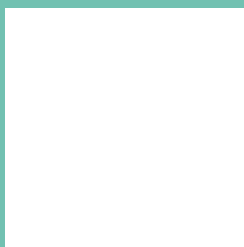
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.8158, 44.8250, 48.4648**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8158, 44.8250, 48.4648.



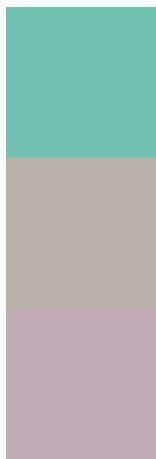
This preview shows how white text looks on a background with the XYZ color 33.8158, 44.8250,



# 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

33.8158, 44.8250, 48.4648

### Protanopia

42.3185, 44.3387, 43.3736

### Deuteranopia

45.0853, 44.1787, 49.8672



## Tritanopia

36.8424, 44.7479, 63.8221

# Trichromacy



**Original Color**

33.8158, 44.8250, 48.4648

**Protanomaly**

38.3847, 44.0763, 45.0126

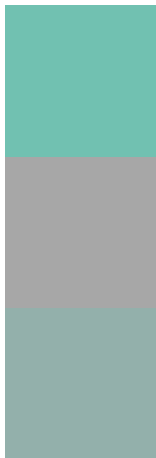
**Deuteranomaly**

39.8693, 43.8303, 49.5388

**Tritanomaly**

35.4872, 44.5039, 57.7587

# Monochromacy



**Original Color**

33.8158, 44.8250, 48.4648

**Achromatopsia**

36.7301, 38.6429, 42.0822

**Achromatomaly**

34.9086, 40.1940, 44.4464

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8158, 44.8250, 48.4648 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(113, 193, 177)` looks like.

```
.text, #text, p{  
    color:rgb(113, 193, 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(113, 193, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 193, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8158, 44.8250, 48.4648 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(113, 193, 177) }
```



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

```
.border{ border-color:rgb(113, 193, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 193, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 193, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 193, 177);  
box-shadow:4px 4px 4px 4px rgb(113, 193,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8158, 44.8250, 48.4648 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 193, 177) }
```

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

```
.background{ background-color: rgb(113,  
193, 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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