

# Converting Colors

XYZ(31.2601, 45.6999, 50.4859)

Have a look what the booklet for  
XYZ(31.2601, 45.6999, 50.4859)  
contains.

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# Color

**XYZ(31.3467, 45.8690,  
50.3815)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45C8B4
RGB	69, 200, 180
RGB Percent	27%, 78%, 71%
CMY	0.7294, 0.2157, 0.2941
CMYK	0.65, 0.00, 0.10, 0.22
HSL	171°, 54%, 53%
HSV	171°, 65%, 78%
XYZ	31.3467, 45.8690, 50.3815
YIQ	158.5510, -71.6560, -33.9920

# Conversions

## Conversions Part 2

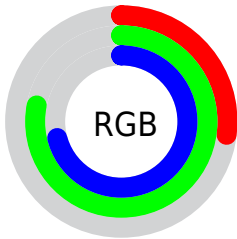
Format	Color
<a href="#">RYB</a>	<a href="#">69, 140, 200</a>
Decimal	<a href="#">4573364</a>
CIELab	<a href="#">73.46, -40.15, -0.45</a>
CIELCh	<a href="#">73, 40.156, 180.641</a>
Yxy	<a href="#">45.8690, 0.2457, 0.3595</a>
Android (android.graphics.Color)	<a href="#">4282763444</a> ( <a href="#">0xFF45C8B4</a> )
YUV	<a href="#">158.5510, 10.5744, -78.5362</a>
Hunter-Lab	<a href="#">67.7267, -35.9045, 3.3031</a>

# Details

The XYZ color **31.3467, 45.8690, 50.3815** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted spring green. A complement of this color would be **27.7522, 17.2581, 11.3212**, and the grayscale version is **32.7278, 34.4322, 37.4967**.

A 20% lighter version of the original color is **60.4160, 82.4817, 92.0932**, and **13.9562, 21.7831, 23.5477** is the 20% darker color. If you saturate the color by 10%, you get **29.8525, 45.1354, 48.7063**, and if you desaturate by 10%, it is **33.3284, 46.8554, 52.1173**.

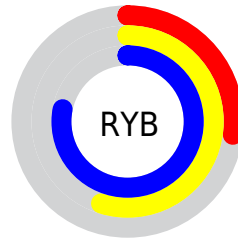
# Distribution



Red (27%)

Green (78%)

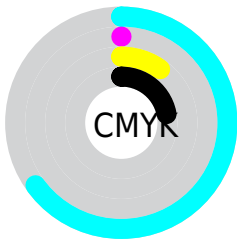
Blue (71%)



Red (27%)

Yellow (55%)

Blue (78%)

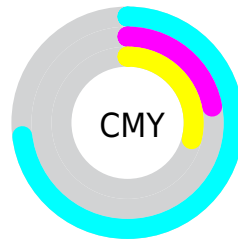


Cyan (65%)

Magenta (0%)

Yellow (10%)

Black (22%)



Cyan (73%)

Magenta (22%)


Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3467, 45.8690, 50.3815 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 31.3467, 45.8690, 50.3815 by changing the saturation by 10% instead.





 31.3467, 45.8690,  
50.3815


 31.3467, 45.8690,  
50.3815


299.9308,  
370.2817, 404.9337


 21.0161, 32.1425,  
35.3433

 61.1576, 84.0229,  
92.1420


 13.2483, 21.4703,  
23.6418


 81.3687, 109.2191,  
119.7014


 7.6779, 13.4682,  
14.8584


 105.6040,  
139.0072, 152.2716

 3.9396, 7.7518,  
8.5745

 134.2288,  
173.7718, 190.2711

 1.6680, 3.9365,  
4.3717

 167.6086,  
213.8971, 234.1186

 0.4361, 1.6381,  
1.8314

206.1086,

 0.0000, 0.3831,

259.7676, 284.2325

0.4486

250.0942,  
311.7677, 341.0313

■ 0.0000, 0.0000,  
0.0000

■ 31.3467, 45.8690,  
50.3815

■ 31.3467, 45.8690,  
50.3815

■ 29.8525, 45.1354,  
48.7063

■ 33.3284, 46.8554,  
52.1173

■ 28.7915, 44.6232,  
47.0859

■ 35.8370, 48.1114,  
53.9128

■ 28.1032, 44.3023,  
45.5183

■ 38.9123, 49.6588,  
55.7711

■ 27.8602, 44.1921,  
44.8271

■ 42.5891, 51.5156,  
57.6940

■ 46.8997, 53.6982,  
59.6832

■ 51.8736, 56.2220,  
61.7403

■ 57.5388, 59.1013,  
63.8669

■ 63.9216, 62.3497,  
66.0643

■ 71.0469, 65.9801,  
68.3341

# Harmonies

## Analogous

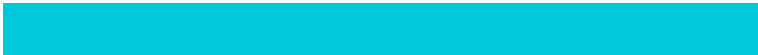
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



32.7710, 45.8690, 33.1564



31.3467, 45.8690, 50.3815



32.8972, 45.8690, 72.5787

# Triad

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



31.3467, 45.8690, 50.3815



50.9138, 45.8690, 91.5831



50.6215, 45.8690, 23.0768

# Complementary

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



31.3467, 45.8690, 50.3815



27.7522, 17.2581, 11.3212

# 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.



56.3969, 45.8690, 32.5842



31.3467, 45.8690, 50.3815



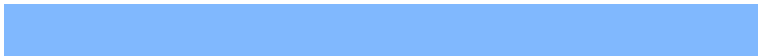
56.5781, 45.8690, 71.6127

# Square

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



31.3467, 45.8690, 50.3815



43.7498, 45.8690, 99.9835



58.6839, 45.8690, 49.5081



43.4448, 45.8690, 20.2116



# Rectangle

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



31.3467, 45.8690, 50.3815



35.5174, 45.8690, 86.5822



58.6839, 45.8690, 49.5081



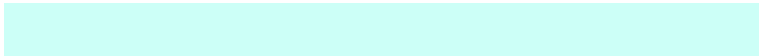
52.8177, 45.8690, 25.4471

# Sweetspot

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



31.3480, 45.8708, 50.3826



77.4832, 91.0859, 101.6656



26.0278, 43.9557, 12.7436



16.1376, 19.2699, 21.5513



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.



31.3480, 45.8708, 50.3826



50.7446, 77.6868, 83.0132



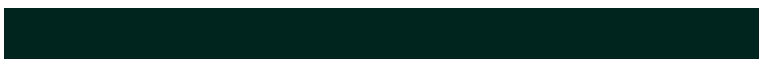
24.8255, 29.3260, 58.9976



10.8744, 12.0387, 13.2889



17.7406, 28.1086, 28.6422



0.8594, 1.3387, 1.4581



# Inverse Universe

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



27.7522, 17.2581, 11.3212



44.1507, 24.5016, 10.8533



30.7631, 24.4466, 8.7284



10.6988, 10.6629, 11.3971



15.3198, 7.8775, 1.6282

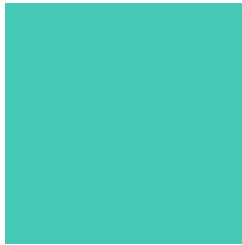


0.7470, 0.3816, 0.1908



# Previews

## White Background



This preview shows how the XYZ color 31.3467, 45.8690, 50.3815 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

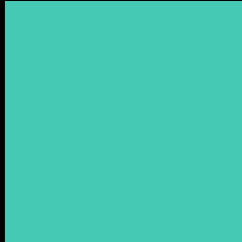
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.3467, 45.8690, 50.3815 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

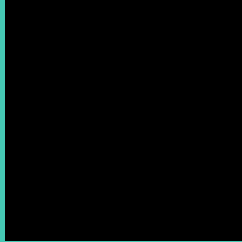
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

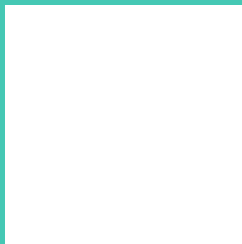
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 31.3467, 45.8690, 50.3815

## Background



This preview shows how black text looks on a background with the XYZ color 31.3467, 45.8690, 50.3815.



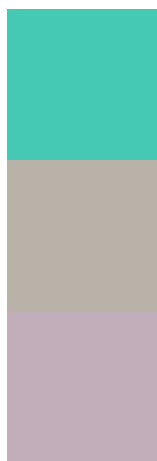
This preview shows how white text looks on a background with the XYZ color 31.3467, 45.8690,



# 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

31.3467, 45.8690, 50.3815

### Protanopia

42.9959, 44.9822, 43.4621

### Deuteranopia

45.9913, 45.1547, 52.7461



## Tritanopia

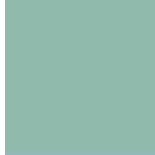
34.8403, 45.5724, 68.5881

# Trichromacy



## Original Color

31.3467, 45.8690, 50.3815



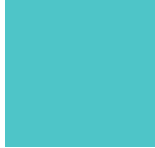
## Protanomaly

36.3330, 43.9360, 45.5953



## Deuteranomaly

37.7980, 43.6236, 51.7754



## Tritanomaly

33.5335, 45.7223, 61.7015

# Monochromacy



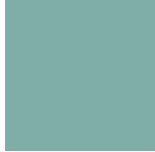
## Original Color

31.3467, 45.8690, 50.3815



## Achromatopsia

32.9542, 34.6704, 37.7561



## Achromatomaly

30.7153, 37.4977, 42.1781

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3467, 45.8690, 50.3815 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(69, 200, 180)` looks like.

```
.text, #text, p{  
    color:rgb(69, 200, 180)  
}
```

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(69, 200, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 200, 180) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3467, 45.8690, 50.3815 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(69, 200, 180) }
```



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

```
.border{ border-color:rgb(69, 200, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 200, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 200, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 200, 180);  
box-shadow:4px 4px 4px 4px rgb(69, 200,  
180) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3467, 45.8690, 50.3815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 200, 180) }
```

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

```
.background{ background-color: rgb(69, 200,  
180) }
```

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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