

# Converting Colors

XYZ(31.3093, 48.3334, 33.6863)

Have a look what the booklet for  
XYZ(31.3093, 48.3334, 33.6863)  
contains.

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# Color

**XYZ(31.3436, 48.3499,  
33.6671)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5BCE8F
RGB	91, 206, 143
RGB Percent	36%, 81%, 56%
CMY	0.6431, 0.1921, 0.4392
CMYK	0.56, 0.00, 0.31, 0.19
HSL	147°, 54%, 58%
HSV	147°, 56%, 81%
XYZ	31.3436, 48.3499, 33.6671
YIQ	164.4330, -48.3170, -43.9730

# Conversions

## Conversions Part 2

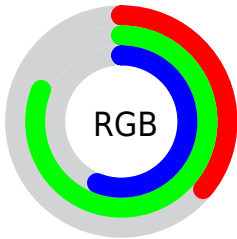
<b>Format</b>	<b>Color</b>
<b>RYB</b>	91, 170, 206
Decimal	6016655
CIELab	75.05, -47.00, 21.73
CIELCh	75, 51.777, 155.182
Yxy	48.3499, 0.2765, 0.4265
Android (android.graphics.Color)	4284206735 (0xFF5BCE8F)
YUV	164.4330, -10.5665, -64.4007
Hunter-Lab	69.5341, -41.2229, 19.9668

# Details

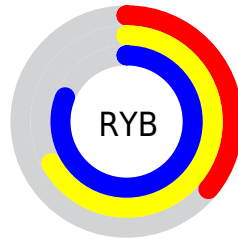
The XYZ color **31.3436, 48.3499, 33.6671** is a dark color, and the websafe version is hex **66CC99**. The color can be described as middle muted spring green. A complement of this color would be **35.0289, 22.9381, 33.1548**, and the grayscale version is **35.5594, 37.4112, 40.7408**.

A 20% lighter version of the original color is **58.2325, 81.9408, 65.5703**, and **13.2669, 23.0444, 13.8740** is the 20% darker color. If you saturate the color by 10%, you get **28.7725, 47.1196, 29.3067**, and if you desaturate by 10%, it is **34.5605, 49.9058, 38.5088**.

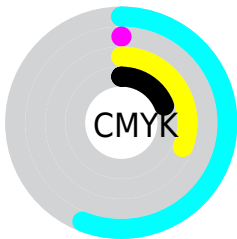
# Distribution



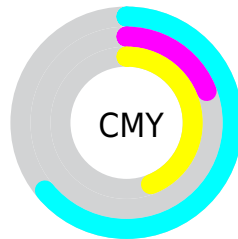
- Red (36%)
- Green (81%)
- Blue (56%)



- Red (36%)
- Yellow (67%)
- Blue (81%)



- Cyan (56%)
- Magenta (0%)
- Yellow (31%)
- Black (19%)




- Cyan (64%)
- Magenta (19%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3436, 48.3499, 33.6671 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 31.3436, 48.3499, 33.6671 by changing the saturation by 10% instead.




 31.3436, 48.3499,  
33.6671


 31.3436, 48.3499,  
33.6671


299.9169,  
380.1774, 333.3688


 21.0137, 34.1041,  
22.3627

 61.1528, 87.7251,  
66.5436


 13.2466, 22.9736,  
13.9228


 81.3629, 113.6233,  
88.9528

 7.6767, 14.5740,  
7.9288


 105.5970,  
144.1744, 115.9006

 3.9388, 8.5209,  
3.9623

 134.2206,  
179.7628, 147.8057

 1.6676, 4.4301,  
1.6047

167.5991,  
220.7729, 185.0865

 0.4359, 1.9169,  
0.2942

206.0977,

 0.0000, 0.5585,

267.5891, 228.1616

0.0000

250.0818,  
320.5958, 277.4495

■ 0.0000, 0.0000,  
0.0000

■ 31.3436, 48.3499,  
33.6671

■ 31.3436, 48.3499,  
33.6671

■ 28.7725, 47.1196,  
29.3067

■ 34.5605, 49.9058,  
38.5088

■ 26.7942, 46.1840,  
25.4089

■ 38.4635, 51.8038,  
43.8433

■ 25.3527, 45.5158,  
21.9582

■ 43.0937, 54.0662,  
49.6857

■ 24.3778, 45.0791,  
18.9369

■ 48.4879, 56.7118,  
56.0494

■ 24.0545, 44.9373,  
17.7963

■ 54.6802, 59.7578,  
62.9473

■ 61.7027, 63.2205,  
70.3919

■ 69.5858, 67.1154,  
78.3950

■ 78.0612, 71.3040,  
86.9544

■ 79.7284, 71.9708,  
95.7338

# Harmonies

## Analogous

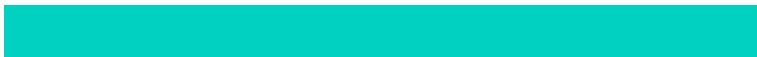
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



36.2512, 48.3499, 20.5146



31.3436, 48.3499, 33.6671



30.1160, 48.3499, 57.4919

# Triad

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



31.3436, 48.3499, 33.6671



47.6178, 48.3499, 123.4337



62.4826, 48.3499, 27.9725

# Complementary

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



31.3436, 48.3499, 33.6671



35.0289, 22.9381, 33.1548

# 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.



66.5548, 48.3499, 48.0781



31.3436, 48.3499, 33.6671



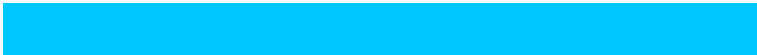
57.2525, 48.3499, 107.7315

# Square

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



31.3436, 48.3499, 33.6671



38.7354, 48.3499, 115.4954



64.5208, 48.3499, 77.6767



54.0204, 48.3499, 18.1052



# Rectangle

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



31.3436, 48.3499, 33.6671



31.3816, 48.3499, 78.0672



64.5208, 48.3499, 77.6767



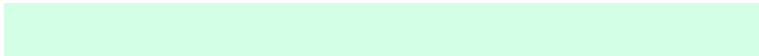
64.4594, 48.3499, 33.4444

# Sweetspot

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



31.3449, 48.3519, 33.6682



77.2699, 91.2488, 89.3278



37.3352, 51.7946, 17.9276



16.1442, 19.3372, 18.6613



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.



31.3449, 48.3519, 33.6682



45.8982, 75.9992, 46.1549



36.8418, 50.5506, 62.6146



11.2754, 12.6199, 13.0077



14.8590, 27.6889, 11.2084



0.8046, 1.4437, 0.7788



# Inverse Universe

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



35.0289, 22.9381, 33.1548



52.4325, 30.8282, 45.1735



31.3420, 21.4633, 13.7397



11.4651, 11.3148, 12.9840



17.5534, 8.8319, 10.6327



0.9435, 0.4708, 0.7484



# Previews

## White Background



This preview shows how the XYZ color 31.3436, 48.3499, 33.6671 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 31.3436, 48.3499, 33.6671 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

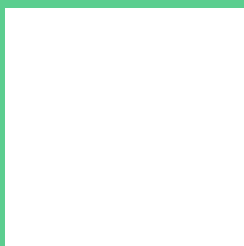
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.3436, 48.3499, 33.6671**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.3436, 48.3499, 33.6671.



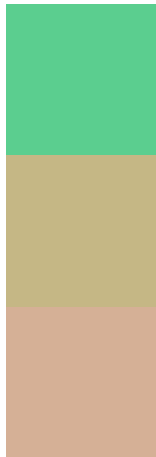
This preview shows how white text looks on a background with the XYZ color 31.3436, 48.3499,



# 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

31.3436, 48.3499, 33.6671

### Protanopia

44.1931, 47.4307, 29.0161

### Deuteranopia

48.4709, 47.3988, 35.4484



## Tritanopia

38.5320, 48.1161, 70.2073

# Trichromacy



## Original Color

31.3436, 48.3499, 33.6671



## Protanomaly

37.2467, 46.3368, 30.6477



## Deuteranomaly

39.3990, 46.0822, 34.4220



## Tritanomaly

35.4403, 47.8824, 54.9513

# Monochromacy



## Original Color

31.3436, 48.3499, 33.6671



## Achromatopsia

35.2861, 37.1238, 40.4278



## Achromatomaly

32.4374, 39.9589, 37.4557

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3436, 48.3499, 33.6671 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(91, 206, 143)` looks like.

```
.text, #text, p{  
    color:rgb(91, 206, 143)  
}
```

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(91, 206, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 206, 143) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3436, 48.3499, 33.6671 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(91, 206, 143) }
```



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

```
.border{ border-color:rgb(91, 206, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(91, 206, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 206, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 206, 143);  
box-shadow:4px 4px 4px 4px rgb(91, 206,  
143) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3436, 48.3499, 33.6671 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 206, 143) }
```

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

```
.background{ background-color: rgb(91, 206,  
143) }
```

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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