

# Converting Colors

XYZ(33.3602, 50.1873, 48.5655)

Have a look what the booklet for  
XYZ(33.3602, 50.1873, 48.5655)  
contains.

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# Color

**XYZ(33.2860, 50.1125,  
48.4758)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49D1AF
RGB	73, 209, 175
RGB Percent	29%, 82%, 69%
CMY	0.7137, 0.1804, 0.3137
CMYK	0.65, 0.00, 0.16, 0.18
HSL	165°, 60%, 55%
HSV	165°, 65%, 82%
XYZ	33.2860, 50.1125, 48.4758
YIQ	164.4600, -70.1420, -39.4060

# Conversions

## Conversions Part 2

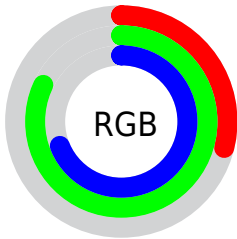
<b>Format</b>	<b>Color</b>
<b>RYB</b>	73, 151, 209
Decimal	4837807
CIELab	76.14, -44.71, 6.14
CIELCh	76, 45.134, 172.177
Yxy	50.1125, 0.2524, 0.3800
Android (android.graphics.Color)	4283027887 (0xFF49D1AF)
YUV	164.4600, 5.1962, -80.2104
Hunter-Lab	70.7902, -39.9510, 8.9524

# Details

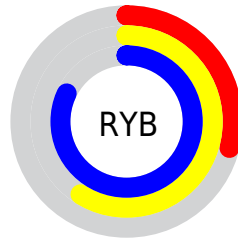
The XYZ color **33.2860, 50.1125, 48.4758** is a light color, and the websafe version is hex **33CC99**. The color can be described as light muted spring green. A complement of this color would be **31.3326, 19.3833, 16.0019**, and the grayscale version is **35.5072, 37.3563, 40.6811**.

A 20% lighter version of the original color is **60.1963, 82.4674, 87.6080**, and **15.1308, 24.5413, 22.6784** is the 20% darker color. If you saturate the color by 10%, you get **31.4574, 49.2292, 45.7636**, and if you desaturate by 10%, it is **35.6691, 51.2818, 51.3199**.

# Distribution



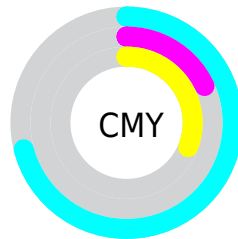
- Red (29%)
- Green (82%)
- Blue (69%)



- Red (29%)
- Yellow (59%)
- Blue (82%)



- Cyan (65%)
- Magenta (0%)
- Yellow (16%)
- Black (18%)



- Cyan (71%)
- Magenta (18%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2860, 50.1125, 48.4758 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 33.2860, 50.1125, 48.4758 by changing the saturation by 10% instead.



■ 33.2860, 50.1125,  
48.4758

■ 33.2860, 50.1125,  
48.4758

308.5787,  
387.1057, 397.2380

■ 22.5059, 35.5028,  
33.8412

■ 64.1735, 90.3415,  
89.2853

■ 14.3478, 24.0504,  
22.4952

■ 85.0116, 116.7297,  
116.2973

■ 8.4463, 15.3710,  
14.0195

■ 109.9331,  
147.8127, 148.2721

■ 4.4360, 9.0802,  
7.9953

■ 139.3033,  
183.9751, 185.6283

■ 1.9516, 4.7935,  
4.0042

173.4876,  
225.6012, 228.7845

■ 0.6066, 2.1266,  
1.6277

212.8514,

■ 0.0000, 0.6795,

273.0754, 278.1591

0.3104

257.7600,  
326.7821, 334.1708

■ 0.0000, 0.0000,  
0.0000

■ 33.2860, 50.1125,  
48.4758

■ 33.2860, 50.1125,  
48.4758

■ 31.4574, 49.2292,  
45.7636

■ 35.6691, 51.2818,  
51.3199

■ 30.1233, 48.5973,  
43.1759

■ 38.6509, 52.7562,  
54.2957

■ 29.2166, 48.1836,  
40.7097

■ 42.2756, 54.5597,  
57.4075

■ 28.8657, 48.0283,  
39.5351

■ 46.5822, 56.7123,  
60.6584

■ 51.6063, 59.2325,  
64.0509

■ 57.3813, 62.1373,  
67.5878

■ 63.9382, 65.4427,  
71.2715

■ 71.3063, 69.1639,  
75.1045

■ 77.2302, 72.1381,  
78.9823

# Harmonies

## Analogous

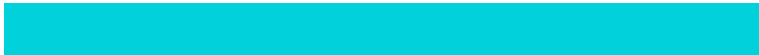
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.9202, 50.1125, 30.7253



33.2860, 50.1125, 48.4758



34.1199, 50.1125, 74.0693

# Triad

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



33.2860, 50.1125, 48.4758



54.0269, 50.1125, 109.9542



58.2984, 50.1125, 25.4554

# Complementary

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



33.2860, 50.1125, 48.4758



31.3326, 19.3833, 16.0019

# 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.



64.3059, 50.1125, 38.8242



33.2860, 50.1125, 48.4758



61.6437, 50.1125, 88.3399

# Square

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



33.2860, 50.1125, 48.4758



45.4543, 50.1125, 114.8231



65.5974, 50.1125, 61.1417



49.8750, 50.1125, 20.2416



# Rectangle

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



33.2860, 50.1125, 48.4758



36.5814, 50.1125, 92.1255



65.5974, 50.1125, 61.1417



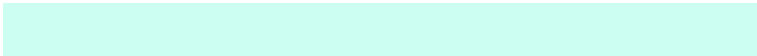
60.7065, 50.1125, 28.9159

# Sweetspot

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



33.2874, 50.1145, 48.4770



76.7263, 90.7832, 97.6798



30.3442, 49.3521, 14.2309



15.9543, 19.1965, 20.5859



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.



33.2874, 50.1145, 48.4770



48.4488, 76.7846, 70.1972



30.0328, 37.5716, 65.9929



12.0268, 13.3545, 14.4975



17.8383, 29.6283, 24.5926



1.0281, 1.6689, 1.5368



# Inverse Universe

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



31.3326, 19.3833, 16.0019



45.2516, 25.1351, 16.0554



32.5232, 24.0869, 9.2394



11.9283, 11.8560, 12.8980



16.6317, 8.5255, 2.9668

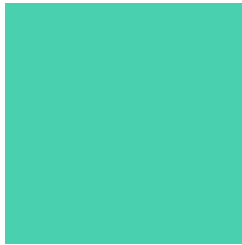


0.9624, 0.4897, 0.3367



# Previews

## White Background



This preview shows how the XYZ color 33.2860, 50.1125, 48.4758 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 33.2860, 50.1125, 48.4758 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

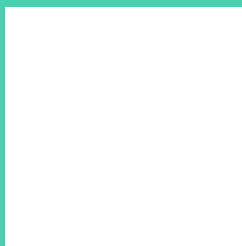
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.2860, 50.1125, 48.4758**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2860, 50.1125, 48.4758.



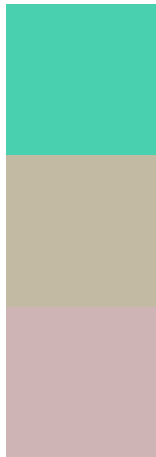
This preview shows how white text looks on a background with the XYZ color 33.2860, 50.1125,



# 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

33.2860, 50.1125, 48.4758

### Protanopia

46.6754, 49.3643, 41.7185

### Deuteranopia

50.1153, 49.1005, 50.5520



## Tritanopia

38.5558, 50.1017, 74.6563

# Trichromacy



## Original Color

33.2860, 50.1125, 48.4758



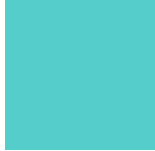
## Protanomaly

39.0293, 47.9529, 43.7580



## Deuteranomaly

40.8680, 47.7854, 49.7174



## Tritanomaly

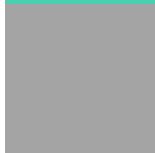
36.3571, 49.9057, 64.2165

# Monochromacy



## Original Color

33.2860, 50.1125, 48.4758



## Achromatopsia

35.2861, 37.1238, 40.4278



## Achromatomaly

32.7492, 40.2950, 43.0974

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2860, 50.1125, 48.4758 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(73, 209, 175)` looks like.

```
.text, #text, p{  
    color:rgb(73, 209, 175)  
}
```

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(73, 209, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 209, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2860, 50.1125, 48.4758 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(73, 209, 175) }
```



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

```
.border{ border-color:rgb(73, 209, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 209, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 209, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 209, 175);  
box-shadow:4px 4px 4px 4px rgb(73, 209,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.2860, 50.1125, 48.4758 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 209, 175) }
```

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

```
.background{ background-color: rgb(73, 209,  
175) }
```

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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