

# Converting Colors

XYZ(33.2774, 45.9533, 45.3506)

Have a look what the booklet for  
XYZ(33.2774, 45.9533, 45.3506)  
contains.

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# Color

**XYZ(33.2854, 45.9606,  
45.1472)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BC5AA
RGB	107, 197, 170
RGB Percent	42%, 77%, 67%
CMY	0.5804, 0.2274, 0.3333
CMYK	0.46, 0.00, 0.14, 0.23
HSL	162°, 44%, 60%
HSV	162°, 46%, 77%
XYZ	33.2854, 45.9606, 45.1472
YIQ	167.0120, -44.9730, -27.4770

# Conversions

## Conversions Part 2

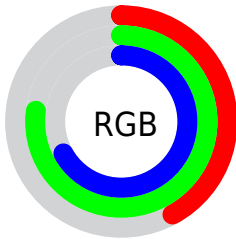
Format	Color
<a href="#">RYB</a>	<a href="#">107, 160, 197</a>
Decimal	<a href="#">7062954</a>
CIELab	<a href="#">73.52, -33.43, 5.21</a>
CIELCh	<a href="#">74, 33.833, 171.146</a>
Yxy	<a href="#">45.9606, 0.2676, 0.3695</a>
Android (android.graphics.Color)	<a href="#">4285253034</a> ( <a href="#">0xFF6BC5AA</a> )
YUV	<a href="#">167.0120, 1.4731, -52.6305</a>
Hunter-Lab	<a href="#">67.7942, -31.0006, 7.9721</a>

# Details

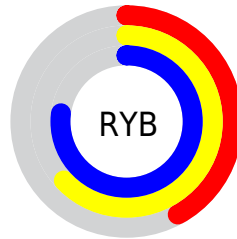
The XYZ color **33.2854, 45.9606, 45.1472** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **32.5883, 24.1082, 25.4919**, and the grayscale version is **36.7463, 38.6600, 42.1007**.

A 20% lighter version of the original color is **64.1367, 84.1064, 84.0880**, and **14.4079, 21.6310, 20.5554** is the 20% darker color. If you saturate the color by 10%, you get **30.6349, 44.6586, 42.1705**, and if you desaturate by 10%, it is **36.5031, 47.5545, 48.2837**.

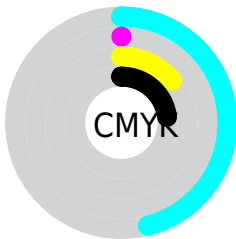
# Distribution



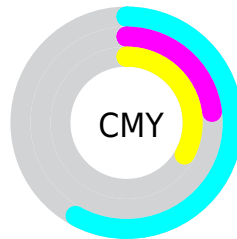
- Red (42%)
- Green (77%)
- Blue (67%)



- Red (42%)
- Yellow (63%)
- Blue (77%)



- Cyan (46%)
- Magenta (0%)
- Yellow (14%)
- Black (23%)



- Cyan (58%)
- Magenta (23%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2854, 45.9606, 45.1472 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 33.2854, 45.9606, 45.1472 by changing the saturation by 10% instead.



33.2854, 45.9606,  
45.1472

33.2854, 45.9606,  
45.1472

308.5761,  
370.6502, 383.5469

22.5055, 32.2147,  
31.2296

64.1726, 84.1600,  
84.2620

14.3474, 21.5256,  
20.5138

85.0105, 109.3824,  
110.2964

8.4460, 13.5087,  
12.5813

109.9318,  
139.1990, 141.2067

4.4358, 7.7798,  
7.0136

139.3018,  
173.9943, 177.4115

1.9515, 3.9544,  
3.3920

173.4858,  
214.1527, 219.3294

0.6065, 1.6481,  
1.2981

212.8493,

0.0000, 0.3897,

260.0586, 267.3789

0.0602

257.7577,  
312.0963, 321.9786

■ 0.0000, 0.0000,  
0.0000

■ 33.2854, 45.9606,  
45.1472

■ 33.2854, 45.9606,  
45.1472

■ 30.6349, 44.6586,  
42.1705

■ 36.5031, 47.5545,  
48.2837

■ 28.5104, 43.6236,  
39.3469

■ 40.3182, 49.4522,  
51.5802

■ 26.8710, 42.8360,  
36.6738


■ 44.7631, 51.6717,  
55.0406


■ 25.6678, 42.2704,  
34.1472


■ 49.8669, 54.2278,  
58.6681

■ 24.8403, 41.8957,  
31.7624


■ 55.6567, 57.1345,  
62.4654

 24.5472, 41.7661,  
30.7742

 62.1580, 60.4049,  
66.4353

 69.3953, 64.0516,  
70.5805

 73.7686, 66.2187,  
74.7340

 74.5528, 66.5324,  
78.8634

# Harmonies

## Analogous

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



35.3327, 45.9606, 32.1071



33.2854, 45.9606, 45.1472



33.8195, 45.9606, 62.8790

# Triad

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



33.2854, 45.9606, 45.1472



47.9621, 45.9606, 87.4392



51.2966, 45.9606, 28.5411

# Complementary

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



33.2854, 45.9606, 45.1472



32.5883, 24.1082, 25.4919

# 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.



55.3017, 45.9606, 39.0852



33.2854, 45.9606, 45.1472



53.2577, 45.9606, 73.6574

# Square

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



33.2854, 45.9606, 45.1472



41.9394, 45.9606, 90.1119



56.0503, 45.9606, 55.2811



45.4767, 45.9606, 24.0606



# Rectangle

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



33.2854, 45.9606, 45.1472



35.5899, 45.9606, 74.9705



56.0503, 45.9606, 55.2811



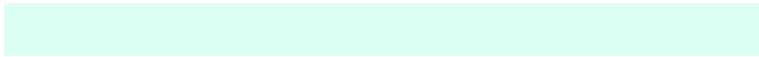
52.9211, 45.9606, 31.3625

# Sweetspot

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



33.2867, 45.9624, 45.1483



81.4369, 93.1759, 99.5110



32.6939, 46.1885, 21.1029



17.0282, 19.7421, 21.0013



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

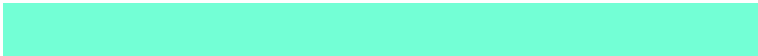


# Same Dimension

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



33.2867, 45.9624, 45.1483



54.7978, 79.9481, 75.4424



32.5653, 40.0035, 58.8305



10.8059, 12.0112, 12.9281



16.1835, 27.4858, 20.4427



0.7972, 1.3138, 1.1307



# Inverse Universe

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



32.5883, 24.1082, 25.4919



53.4134, 35.8930, 35.9341



32.8264, 27.2235, 17.4353



10.7626, 10.6884, 11.7334



15.6988, 8.0291, 3.6240

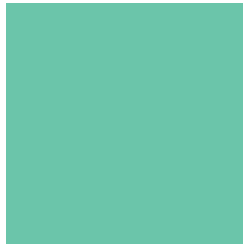


0.7759, 0.3932, 0.3429



# Previews

## White Background



This preview shows how the XYZ color 33.2854, 45.9606, 45.1472 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 33.2854, 45.9606, 45.1472 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

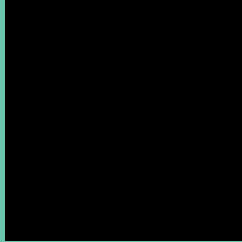
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.2854, 45.9606, 45.1472**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2854, 45.9606, 45.1472.



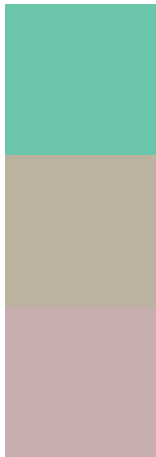
This preview shows how white text looks on a background with the XYZ color 33.2854, 45.9606,



# 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

33.2854, 45.9606, 45.1472

### Protanopia

42.9588, 45.3431, 39.7456

### Deuteranopia

46.4271, 45.5094, 46.8947



## Tritanopia

37.4482, 45.9862, 65.9340

# Trichromacy



## Original Color

33.2854, 45.9606, 45.1472

## Protanomaly

38.3603, 45.0672, 41.7990

## Deuteranomaly

39.9967, 44.5800, 46.0319

## Tritanomaly

35.8394, 45.9893, 58.0268

# Monochromacy



## Original Color

33.2854, 45.9606, 45.1472

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

34.6653, 40.6877, 43.0722

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2854, 45.9606, 45.1472 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(107, 197, 170)` looks like.

```
.text, #text, p{  
    color:rgb(107, 197, 170)  
}
```

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(107, 197, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 197, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2854, 45.9606, 45.1472 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(107, 197, 170) }
```



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

```
.border{ border-color:rgb(107, 197, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 197, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 197, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 197, 170);  
box-shadow:4px 4px 4px 4px rgb(107, 197,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.2854, 45.9606, 45.1472 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 197, 170) }
```

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

```
.background{ background-color: rgb(107,  
197, 170) }
```

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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