

# Converting Colors

XYZ(33.8640, 45.0439, 44.2237)

Have a look what the booklet for  
XYZ(33.8640, 45.0439, 44.2237)  
contains.

<b>XYZ(33.8391, 44.9264, 44.4243)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(33.8391, 44.9264,  
44.4243)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77C1A9
RGB	119, 193, 169
RGB Percent	47%, 76%, 66%
CMY	0.5333, 0.2431, 0.3372
CMYK	0.38, 0.00, 0.12, 0.24
HSL	161°, 37%, 61%
HSV	161°, 38%, 76%
XYZ	33.8391, 44.9264, 44.4243
YIQ	168.1380, -36.4000, -23.1520

# Conversions

## Conversions Part 2

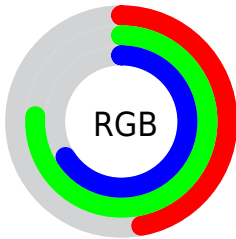
<b>Format</b>	<b>Color</b>
<b>RYB</b>	119, 163, 193
Decimal	7848361
CIELab	72.84, -28.57, 4.84
CIELCh	73, 28.978, 170.383
Yxy	44.9264, 0.2747, 0.3647
Android (android.graphics.Color)	4286038441 (0xFF77C1A9)
YUV	168.1380, 0.4250, -43.0940
Hunter-Lab	67.0272, -27.1806, 7.6227

# Details

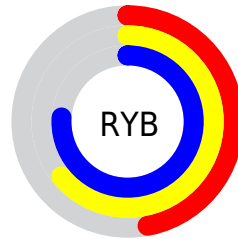
The XYZ color **33.8391, 44.9264, 44.4243** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **33.5485, 26.5153, 29.3380**, and the grayscale version is **37.2989, 39.2414, 42.7339**.

A 20% lighter version of the original color is **65.0957, 82.7517, 83.0628**, and **14.6903, 20.9078, 20.0910** is the 20% darker color. If you saturate the color by 10%, you get **30.8811, 43.4689, 41.2918**, and if you desaturate by 10%, it is **37.3657, 46.6760, 47.7322**.

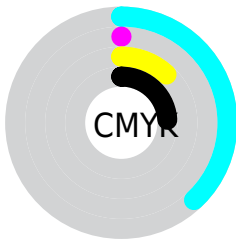
# Distribution



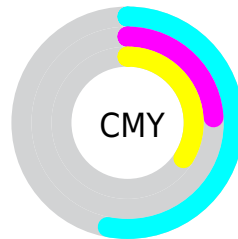
- Red (47%)
- Green (76%)
- Blue (66%)



- Red (47%)
- Yellow (64%)
- Blue (76%)



- Cyan (38%)
- Magenta (0%)
- Yellow (12%)
- Black (24%)




- Cyan (53%)
- Magenta (24%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8391, 44.9264, 44.4243 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 33.8391, 44.9264, 44.4243 by changing the saturation by 10% instead.





 33.8391, 44.9264,  
44.4243


 33.8391, 44.9264,  
44.4243


311.0126,  
366.4754, 380.5288


 22.9323, 31.3995,  
30.6646


 65.0293, 82.6100,  
83.1651

 14.6640, 20.9032,  
20.0872


 86.0435, 107.5354,  
108.9833

 8.6687, 13.0533,  
12.2738


 111.1575,  
137.0290, 139.6580

 4.5811, 7.4652,  
6.8056

140.7367,  
171.4754, 175.6078

 2.0358, 3.7547,  
3.2642

175.1465,  
211.2588, 217.2512

 0.6540, 1.5373,  
1.2311

214.7521,

 0.0000, 0.3148,

256.7637, 265.0069

0.0043

259.9190,  
308.3744, 319.2932

■ 0.0000, 0.0000,  
0.0000

■ 33.8391, 44.9264,  
44.4243

■ 33.8391, 44.9264,  
44.4243

■ 30.8811, 43.4689,  
41.2918

■ 37.3657, 46.6760,  
47.7322

■ 28.4546, 42.2812,  
38.3281

■ 41.4874, 48.7280,  
51.2160

■ 26.5243, 41.3460,  
35.5304


■ 46.2337, 51.0987,  
54.8798


■ 25.0486, 40.6420,  
32.8947


■ 51.6309, 53.8015,  
58.7268


■ 23.9786, 40.1442,  
30.4165


■ 57.7039, 56.8492,  
62.7601


 23.2376, 39.8129,  
28.0900

 64.4760, 60.2539,  
66.9826

 23.1272, 39.7641,  
27.7178

 71.9696, 64.0271,  
71.3972

 73.1076, 64.5203,  
75.6744

 73.9480, 64.8564,  
80.0995

# Harmonies

## Analogous

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



35.6608, 44.9264, 33.2643



33.8391, 44.9264, 44.4243



34.2438, 44.9264, 59.2376

# Triad

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



33.8391, 44.9264, 44.4243



46.1672, 44.9264, 79.8283



49.1854, 44.9264, 30.4967

# Complementary

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



33.8391, 44.9264, 44.4243



33.5485, 26.5153, 29.3380

# 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.



52.4477, 44.9264, 39.8710



33.8391, 44.9264, 44.4243



50.6122, 44.9264, 68.8409

# Square

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



33.8391, 44.9264, 44.4243



41.1021, 44.9264, 81.7116



52.9894, 44.9264, 53.7033



44.3412, 44.9264, 26.3334



# Rectangle

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



33.8391, 44.9264, 44.4243



35.7347, 44.9264, 69.1986



52.9894, 44.9264, 53.7033



50.5189, 44.9264, 33.0450

# Sweetspot

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



33.8404, 44.9282, 44.4253



79.3971, 89.8126, 95.7242



33.8445, 45.3730, 24.4275



16.7922, 19.1473, 20.3506



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.



33.8404, 44.9282, 44.4253



56.0990, 78.2401, 74.8402



33.6909, 40.6862, 56.5317



10.2251, 11.3711, 12.1885



15.4196, 26.4619, 18.6346



0.6967, 1.1555, 0.9657



# Inverse Universe

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



33.5485, 26.5153, 29.3380



55.5135, 40.6058, 44.0578



33.4846, 28.9928, 21.2847



10.2049, 10.1306, 11.1693



15.2497, 7.7896, 3.9611

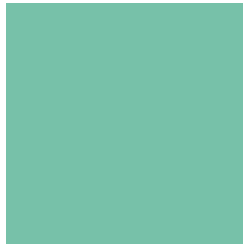


0.6910, 0.3494, 0.3402



# Previews

## White Background



This preview shows how the XYZ color 33.8391, 44.9264, 44.4243 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 33.8391, 44.9264, 44.4243 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

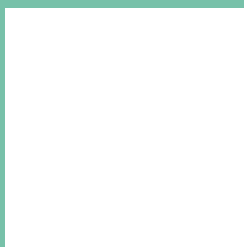
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.8391, 44.9264, 44.4243**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8391, 44.9264, 44.4243.



This preview shows how white text looks on a background with the XYZ color 33.8391, 44.9264,



# 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

33.8391, 44.9264, 44.4243

### Protanopia

42.1627, 44.3318, 40.0529

### Deuteranopia

45.3213, 44.3925, 45.7151



## Tritanopia

37.5151, 44.7903, 63.1680

# Trichromacy



## Original Color

33.8391, 44.9264, 44.4243

## Protanomaly

38.3323, 44.1244, 41.6185

## Deuteranomaly

40.1298, 44.0561, 45.4183

## Tritanomaly

36.1296, 44.8736, 56.0475

# Monochromacy



## Original Color

33.8391, 44.9264, 44.4243

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

35.3677, 40.7555, 43.0483

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8391, 44.9264, 44.4243 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(119, 193, 169)` looks like.

```
.text, #text, p{  
    color:rgb(119, 193, 169)  
}
```

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(119, 193, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 193, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8391, 44.9264, 44.4243 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(119, 193, 169) }
```



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

```
.border{ border-color:rgb(119, 193, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 193, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 193, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 193, 169);  
box-shadow:4px 4px 4px 4px rgb(119, 193,  
169) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8391, 44.9264, 44.4243 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 193, 169) }
```

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

```
.background{ background-color: rgb(119,  
193, 169) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor