

# Converting Colors

XYZ(49.2219, 50.1648, 80.3709)

Have a look what the booklet for  
XYZ(49.2219, 50.1648, 80.3709)  
contains.

<b>XYZ(49.2295, 50.1408, 80.4822)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(49.2295, 50.1408,  
80.4822)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEBBE4
RGB	174, 187, 228
RGB Percent	68%, 73%, 89%
CMY	0.3176, 0.2667, 0.1059
CMYK	0.24, 0.18, 0.00, 0.11
HSL	226°, 50%, 79%
HSV	226°, 24%, 89%
XYZ	49.2295, 50.1408, 80.4822
YIQ	187.7870, -20.9090, 9.9950

# Conversions

## Conversions Part 2

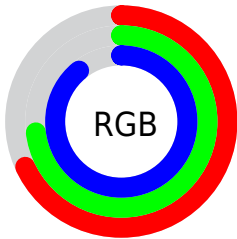
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 184, 228
Decimal	11451364
CIELab	76.16, 4.32, -21.94
CIELCh	76, 22.365, 281.139
Yxy	50.1408, 0.2737, 0.2788
Android (android.graphics.Color)	4289641444 (0xFFAEBBE4)
YUV	187.7870, 19.8250, -12.0912
Hunter-Lab	70.8102, 0.1811, -17.8214

# Details

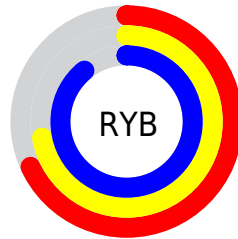
The XYZ color **49.2295, 50.1408, 80.4822** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **63.9359, 68.1511, 49.8305**, and the grayscale version is **47.5801, 50.0579, 54.5131**.

A 20% lighter version of the original color is **82.7337, 88.1442, 107.2607**, and **23.8566, 24.0937, 42.4229** is the 20% darker color. If you saturate the color by 10%, you get **41.1212, 40.8349, 79.1142**, and if you desaturate by 10%, it is **58.6458, 60.7806, 82.0404**.

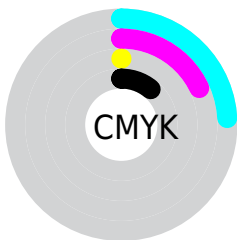
# Distribution



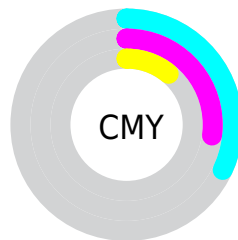
- Red (68%)
- Green (73%)
- Blue (89%)



- Red (68%)
- Yellow (72%)
- Blue (89%)



- Cyan (24%)
- Magenta (18%)
- Yellow (0%)
- Black (11%)



- Cyan (32%)
- Magenta (27%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2295, 50.1408, 80.4822 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 49.2295, 50.1408, 80.4822 by changing the saturation by 10% instead.



■ 49.2295, 50.1408,  
80.4822

■ 49.2295, 50.1408,  
80.4822

374.1471,  
387.2163, 516.3060

■ 35.0169, 35.5253,  
59.5867

■ 88.2309, 90.3835,  
135.8610

■ 23.8424, 24.0678,  
42.6625

113.7503,  
116.7794, 171.1814

■ 15.3409, 15.3839,  
29.2910

143.7694,  
147.8709, 212.1472

■ 9.1468, 9.0893,  
19.0536

178.6535,  
184.0424, 259.1769

■ 4.8950, 4.7995,  
11.5318

218.7680,  
225.6783, 312.6891

■ 2.2199, 2.1301,  
6.3071

264.4782,

■ 0.7532, 0.6815,

273.1630, 373.1023

2.9609

316.1494,  
326.8809, 440.8351

■ 0.0000, 0.0000,  
1.0747

■ 0.0000, 0.0000,  
0.0000

■ 49.2295, 50.1408,  
80.4822

■ 49.2295, 50.1408,  
80.4822

■ 41.1212, 40.8349,  
79.1142

■ 58.6458, 60.7806,  
82.0404

■ 34.2570, 32.8030,  
77.9256

■ 69.4207, 72.7988,  
83.7923

■ 28.5745, 25.9895,  
76.9100

■ 81.6078, 86.2454,  
85.7454

■ 24.0040, 20.3324,  
76.0590

■ 91.0037, 98.3815,  
87.5927

■ 20.4679, 15.7634,  
75.3634

■ 17.8780, 12.2067,  
74.8134

■ 16.1295, 9.5748,  
74.3976

■ 15.3650, 8.3240,  
74.1964

# Harmonies

## Analogous

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



45.1022, 50.1408, 79.4459



49.2295, 50.1408, 80.4822



53.1518, 50.1408, 73.8626

# Triad

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



49.2295, 50.1408, 80.4822



53.9804, 50.1408, 40.7889



40.4384, 50.1408, 47.4762

# Complementary

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



49.2295, 50.1408, 80.4822



63.9359, 68.1511, 49.8305

# 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.



42.5552, 50.1408, 39.0081



49.2295, 50.1408, 80.4822



50.3072, 50.1408, 35.5555

# Square

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



49.2295, 50.1408, 80.4822



55.9998, 50.1408, 50.2609



46.1190, 50.1408, 34.9553



40.1875, 50.1408, 59.1710



# Rectangle

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



49.2295, 50.1408, 80.4822



55.0607, 50.1408, 66.4957



46.1190, 50.1408, 34.9553



40.9493, 50.1408, 44.2060

# Sweetspot

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



49.2311, 50.1428, 80.4833



84.6132, 88.4264, 107.2161



57.4016, 69.3671, 74.3184



17.9271, 18.7224, 22.9189



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.



49.2311, 50.1428, 80.4833



58.5594, 59.0369, 102.9166



49.7570, 46.5029, 79.7531



13.8632, 14.4478, 18.2024



8.9493, 4.9606, 42.8690



0.7324, 0.5088, 3.1916



# Inverse Universe

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



56.1019, 50.3554, 53.7786



68.8156, 59.5822, 63.0031



63.2621, 72.9152, 50.7856



14.5185, 14.4246, 15.6650



18.9107, 9.6985, 3.1586



1.4333, 0.7310, 0.4224



# Previews

## White Background



This preview shows how the XYZ color 49.2295, 50.1408, 80.4822 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

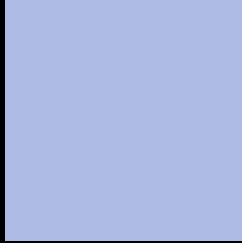
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.2295, 50.1408, 80.4822 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

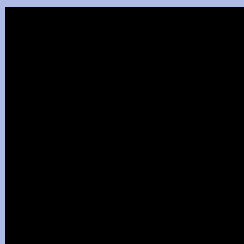
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.2295, 50.1408, 80.4822**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2295, 50.1408, 80.4822.



This preview shows how white text looks on a background with the XYZ color 49.2295, 50.1408,



# 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

49.2295, 50.1408, 80.4822

### Protanopia

49.7841, 50.1288, 79.7250

### Deuteranopia

51.2909, 50.2524, 81.1251



## Tritanopia

46.3489, 50.2639, 65.6516

# Trichromacy



## Original Color

49.2295, 50.1408, 80.4822

## Protanomaly

49.5555, 50.0110, 79.7143

## Deuteranomaly

50.5479, 50.1788, 81.1501

## Tritanomaly

47.3456, 50.3399, 70.8395

# Monochromacy



## Original Color

49.2295, 50.1408, 80.4822

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

48.2912, 50.3455, 63.6724

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2295, 50.1408, 80.4822 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(174, 187, 228)` looks like.

```
.text, #text, p{  
    color:rgb(174, 187, 228)  
}
```

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(174, 187, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 187, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2295, 50.1408, 80.4822 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(174, 187, 228) }
```



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

```
.border{ border-color:rgb(174, 187, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 187, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 187, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 187, 228);  
box-shadow:4px 4px 4px 4px rgb(174, 187,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2295, 50.1408, 80.4822 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 187, 228) }
```

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

```
.background{ background-color: rgb(174,  
187, 228) }
```

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