

# Converting Colors

XYZ(45.7957, 45.1644, 78.4766)

Have a look what the booklet for  
XYZ(45.7957, 45.1644, 78.4766)  
contains.

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# Color

**XYZ(45.6150, 44.9767,  
78.2287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A9B0E2
RGB	169, 176, 226
RGB Percent	66%, 69%, 89%
CMY	0.3372, 0.3098, 0.1137
CMYK	0.25, 0.22, 0.00, 0.11
HSL	233°, 50%, 77%
HSV	233°, 25%, 89%
XYZ	45.6150, 44.9767, 78.2287
YIQ	179.6070, -20.2220, 14.0660

# Conversions

## Conversions Part 2

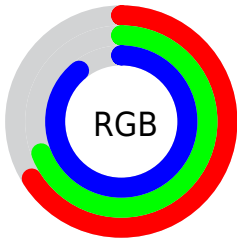
Format	Color
R <sub>Y</sub> B	169, 175, 226
Decimal	11120866
CIE Lab	72.88, 8.38, -25.89
CIE LCh	73, 27.215, 287.927
Yxy	44.9767, 0.2702, 0.2664
Android (android.graphics.Color)	4289310946 (0xFFA9B0E2)
YUV	179.6070, 22.8717, -9.3023
Hunter-Lab	67.0647, 4.0462, -22.2145

# Details

The XYZ color **45.6150, 44.9767, 78.2287** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **63.8576, 69.6967, 47.6246**, and the grayscale version is **43.0623, 45.3049, 49.3370**.

A 20% lighter version of the original color is **77.9579, 80.9408, 106.1220**, and **21.7608, 21.0686, 41.4478** is the 20% darker color. If you saturate the color by 10%, you get **37.5720, 35.4762, 76.8196**, and if you desaturate by 10%, it is **55.0665, 56.0480, 79.8683**.

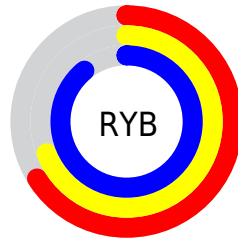
# Distribution



Red (66%)

Green (69%)

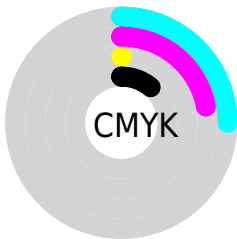
Blue (89%)



Red (66%)

Yellow (69%)

Blue (89%)

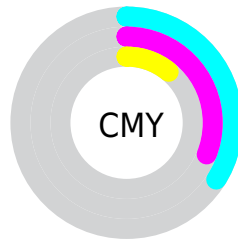


Cyan (25%)

Magenta (22%)

Yellow (0%)

Black (11%)



Cyan (34%)

Magenta (31%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6150, 44.9767, 78.2287 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 45.6150, 44.9767, 78.2287 by changing the saturation by 10% instead.



■ 45.6150, 44.9767,  
78.2287

■ 45.6150, 44.9767,  
78.2287

360.0006,  
366.6792, 508.4917

■ 32.1455, 31.4391,  
57.7443

■ 82.8739, 82.6854,  
132.6613

■ 21.6287, 20.9334,  
41.1898

107.3940,  
107.6254, 167.4465

■ 13.6994, 13.0753,  
28.1466

136.3283,  
137.1348, 207.8358

■ 7.9922, 7.4804,  
18.1962

170.0422,  
171.5982, 254.2477

■ 4.1417, 3.7643,  
10.9200

208.9010,  
211.4000, 307.1006

■ 1.7826, 1.5426,  
5.8996

253.2701,

■ 0.5072, 0.3185,

256.9244, 366.8133

2.7163

303.5148,  
308.5561, 433.8041

■ 0.0000, 0.0000,  
0.9516

■ 0.0000, 0.0000,  
0.0000

■ 45.6150, 44.9767,  
78.2287

■ 45.6150, 44.9767,  
78.2287

■ 37.5720, 35.4762,  
76.8196

■ 55.0665, 56.0480,  
79.8683

■ 30.8656, 27.4700,  
75.6277

■ 65.9853, 68.7514,  
81.7448

■ 25.4239, 20.8830,  
74.6431

■ 78.4318, 83.1514,  
83.8683

■ 21.1667, 15.6316,  
73.8539

■ 90.7276, 98.2710,  
86.1386

■ 18.0043, 11.6232,  
73.2468

■ 15.8338, 8.7531,  
72.8072

■ 14.5319, 6.8986,  
72.5179

■ 14.1372, 6.3102,  
72.4251

# Harmonies

## Analogous

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



40.8715, 44.9767, 79.1748



45.6150, 44.9767, 78.2287



49.8746, 44.9767, 68.6192

# Triad

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



45.6150, 44.9767, 78.2287



49.1491, 44.9767, 32.0452



34.4445, 44.9767, 43.7146

# Complementary

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



45.6150, 44.9767, 78.2287



63.8576, 69.6967, 47.6246

# 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.



36.3366, 44.9767, 33.4862



45.6150, 44.9767, 78.2287



44.6831, 44.9767, 27.6316

# Square

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



45.6150, 44.9767, 78.2287



52.0164, 44.9767, 41.3719



40.0056, 44.9767, 28.1052



34.6534, 44.9767, 57.4501



# Rectangle

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



45.6150, 44.9767, 78.2287



51.7599, 44.9767, 59.4463



40.0056, 44.9767, 28.1052



34.8498, 44.9767, 39.8065

# Sweetspot

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



45.6165, 44.9785, 78.2297



82.4938, 85.4438, 106.7521



56.2669, 67.9116, 76.7480



17.1827, 17.7371, 22.7679



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.



45.6165, 44.9785, 78.2297



54.4861, 52.6664, 101.9016



49.1269, 44.8026, 78.0107



13.0870, 13.5132, 17.3062



8.1111, 3.6917, 41.3334



0.6074, 0.3463, 2.8801



# Inverse Universe

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



53.3897, 47.6806, 47.4656



66.3260, 56.9265, 55.0105



59.5632, 70.2516, 47.9581



13.7754, 13.7278, 14.5874



18.0343, 9.2807, 1.5804



1.2729, 0.6524, 0.2297



# Previews

## White Background



This preview shows how the XYZ color 45.6150, 44.9767, 78.2287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

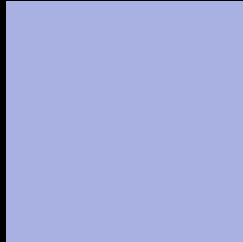
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.6150, 44.9767, 78.2287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

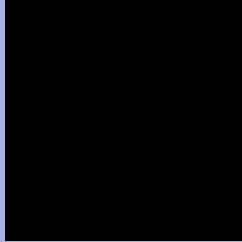
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.6150, 44.9767, 78.2287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6150, 44.9767, 78.2287.



This preview shows how white text looks on a background with the XYZ color 45.6150, 44.9767,



# 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

45.6150, 44.9767, 78.2287

### Protanopia

45.3132, 45.0973, 78.9894

### Deuteranopia

45.8520, 44.8089, 78.1838



## Tritanopia

41.5919, 44.8198, 58.6835

# Trichromacy



## Original Color

45.6150, 44.9767, 78.2287

## Protanomaly

45.5236, 45.2058, 78.9993

## Deuteranomaly

45.6350, 44.6970, 78.1737

## Tritanomaly

42.8996, 44.7445, 65.4070

# Monochromacy



## Original Color

45.6150, 44.9767, 78.2287

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

44.1026, 45.5015, 59.2815

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6150, 44.9767, 78.2287 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(169, 176, 226)` looks like.

```
.text, #text, p{  
    color:rgb(169, 176, 226)  
}
```

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(169, 176, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 176, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6150, 44.9767, 78.2287 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(169, 176, 226) }
```



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

```
.border{ border-color:rgb(169, 176, 226) }
```

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

Here you see how a box with a 4 pixel rgb(169, 176, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 176, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 176, 226);  
box-shadow:4px 4px 4px 4px rgb(169, 176,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.6150, 44.9767, 78.2287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 176, 226) }
```

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

```
.background{ background-color: rgb(169,  
176, 226) }
```

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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