

# Converting Colors

XYZ(52.2802, 45.1643, 78.1767)

Have a look what the booklet for  
XYZ(52.2802, 45.1643, 78.1767)  
contains.

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# Color

**XYZ(52.1798, 45.0210,  
77.8913)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDA4E2
RGB	205, 164, 226
RGB Percent	80%, 64%, 89%
CMY	0.1961, 0.3568, 0.1137
CMYK	0.09, 0.27, 0.00, 0.11
HSL	280°, 52%, 76%
HSV	280°, 27%, 89%
XYZ	52.1798, 45.0210, 77.8913
YIQ	183.3270, 4.5340, 27.9740

# Conversions

## Conversions Part 2

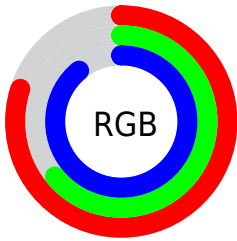
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	205, 164, 226
Decimal	13477090
CIE Lab	72.91, 26.20, -25.59
CIE LCh	73, 36.617, 315.675
Yxy	45.0210, 0.2980, 0.2571
Android (android.graphics.Color)	4291667170 (0xFFCDA4E2)
YUV	183.3270, 21.0378, 19.0072
Hunter-Lab	67.0977, 21.3930, -21.8592

# Details

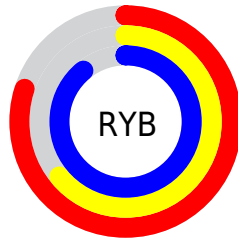
The XYZ color **52.1798, 45.0210, 77.8913** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **53.9062, 67.3884, 45.2901**, and the grayscale version is **45.0768, 47.4243, 51.6450**.

A 20% lighter version of the original color is **84.6215, 79.1430, 105.4238**, and **25.6275, 20.9747, 40.7280** is the 20% darker color. If you saturate the color by 10%, you get **46.4292, 36.5774, 76.5653**, and if you desaturate by 10%, it is **58.7553, 54.9589, 79.4636**.

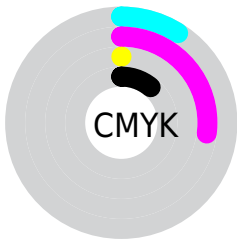
# Distribution



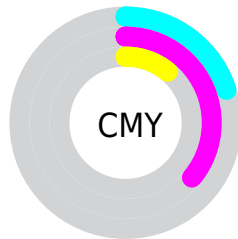
- Red (80%)
- Green (64%)
- Blue (89%)



- Red (80%)
- Yellow (64%)
- Blue (89%)



- Cyan (9%)
- Magenta (27%)
- Yellow (0%)
- Black (11%)




- Cyan (20%)
- Magenta (36%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.1798, 45.0210, 77.8913 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 52.1798, 45.0210, 77.8913 by changing the saturation by 10% instead.





 52.1798, 45.0210,  
77.8913

 52.1798, 45.0210,  
77.8913


385.4429,  
366.8586, 507.3157

 37.3733, 31.4740,  
57.4688


 92.5690, 82.7519,  
132.1814

 25.6716, 20.9600,  
40.9699


 118.8824,  
107.7046, 166.8860

 16.7095, 13.0948,  
27.9760


149.7621,  
137.2280, 207.1883

 10.1216, 7.4938,  
18.0687

185.5735,  
171.7064, 253.5070

 5.5426, 3.7728,  
10.8294

226.6819,  
211.5243, 306.2606

 2.6070, 1.5473,  
5.8395

273.4527,

 0.9495, 0.3217,

257.0660, 365.8675

2.6805

326.2513,  
308.7160, 432.7464

■ 0.0000, 0.0000,  
0.9336

■ 0.0000, 0.0000,  
0.0000

■ 52.1798, 45.0210,  
77.8913

■ 52.1798, 45.0210,  
77.8913

■ 46.4292, 36.5774,  
76.5653

■ 58.7553, 54.9589,  
79.4636

■ 41.4596, 29.5457,  
75.4700

■ 66.1879, 66.4567,  
81.2912

■ 37.2294, 23.8437,  
74.5923

■ 74.5136, 79.5828,  
83.3860

■ 33.6910, 19.3785,  
73.9170

■ 83.7645, 94.3999,  
85.7584

■ 30.7905, 16.0449,  
73.4264

■ 86.5452, 96.1150,  
85.9429

■ 28.4650, 13.7192,  
73.1000

■ 89.2465, 97.5075,  
86.0693

■ 26.6308, 12.2364,  
72.9105

■ 90.7276, 98.2710,  
86.1386

■ 26.2047, 11.9232,  
72.8725

# Harmonies

## Analogous

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



46.1915, 45.0210, 91.2191



52.1798, 45.0210, 77.8913



55.8103, 45.0210, 58.2359

# Triad

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



52.1798, 45.0210, 77.8913



45.8984, 45.0210, 22.2529



32.0342, 45.0210, 59.1374

# Complementary

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



52.1798, 45.0210, 77.8913



53.9062, 67.3884, 45.2901

# 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.



31.9725, 45.0210, 40.8320



52.1798, 45.0210, 77.8913



39.5618, 45.0210, 22.3797

# Square

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



52.1798, 45.0210, 77.8913



51.9469, 45.0210, 27.9389



34.6021, 45.0210, 28.3432



34.7798, 45.0210, 78.6911



# Rectangle

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



52.1798, 45.0210, 77.8913



56.1947, 45.0210, 45.6278



34.6021, 45.0210, 28.3432



31.7087, 45.0210, 52.5768

# Sweetspot

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



52.1812, 45.0229, 77.8923



86.3874, 86.3808, 106.7278



46.5347, 48.3768, 78.8373



18.1601, 17.9743, 22.7622



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.



52.1812, 45.0229, 77.8923



64.1049, 52.5385, 101.3700



57.1261, 47.7156, 71.6414



13.8206, 13.6911, 17.3019



15.0811, 6.8699, 41.5795



1.1397, 0.5248, 2.8865



# Inverse Universe

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



53.3979, 46.2243, 52.0085



66.1244, 54.4691, 61.2761



50.0796, 65.3151, 49.6570



13.8978, 13.7768, 15.2322



18.6982, 9.5463, 5.0763

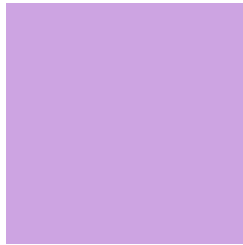


1.3369, 0.6780, 0.5669



# Previews

## White Background



This preview shows how the XYZ color 52.1798, 45.0210, 77.8913 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

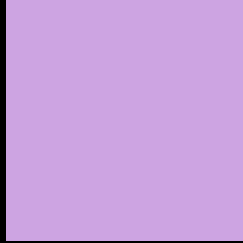
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 52.1798, 45.0210, 77.8913 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 52.1798, 45.0210, 77.8913**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.1798, 45.0210, 77.8913.



This preview shows how white text looks on a background with the XYZ color 52.1798, 45.0210,



# 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

52.1798, 45.0210, 77.8913

### Protanopia

45.8218, 45.2290, 84.9123

### Deuteranopia

46.4354, 45.4312, 76.8427



## Tritanopia

47.0627, 45.1499, 52.1333

# Trichromacy



## Original Color

52.1798, 45.0210, 77.8913

## Protanomaly

47.6781, 44.7962, 82.4776

## Deuteranomaly

48.3507, 45.2556, 77.4210

## Tritanomaly

48.7007, 44.9636, 60.7556

# Monochromacy



## Original Color

52.1798, 45.0210, 77.8913

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

47.3200, 46.2506, 60.4660

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.1798, 45.0210, 77.8913 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(205, 164, 226)` looks like.

```
.text, #text, p{  
    color:rgb(205, 164, 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(205, 164, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 164, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 52.1798, 45.0210, 77.8913 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(205, 164, 226) }
```



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

```
.border{ border-color:rgb(205, 164, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 164, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 164, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 164, 226);  
box-shadow:4px 4px 4px 4px rgb(205, 164,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.1798, 45.0210, 77.8913 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 164, 226) }
```

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

```
.background{ background-color: rgb(205,  
164, 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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