

# Converting Colors

XYZ(52.4197, 45.3948, 81.7876)

Have a look what the booklet for  
XYZ(52.4197, 45.3948, 81.7876)  
contains.

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# Color

**XYZ(52.2361, 45.2363,  
81.5797)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAA5E7
RGB	202, 165, 231
RGB Percent	79%, 65%, 91%
CMY	0.2078, 0.3529, 0.0941
CMYK	0.13, 0.29, 0.00, 0.09
HSL	274°, 58%, 78%
HSV	274°, 29%, 91%
XYZ	52.2361, 45.2363, 81.5797
YIQ	183.5870, 0.8660, 28.3700

# Conversions

## Conversions Part 2

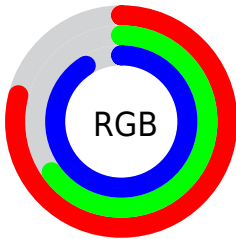
Format	Color
RYP	202, 165, 231
Decimal	13280743
CIELab	73.05, 25.73, -28.12
CIElCh	73, 38.118, 312.460
Yxy	45.2363, 0.2917, 0.2526
Android (android.graphics.Color)	4291470823 (0xFFCAA5E7)
YUV	183.5870, 23.3746, 16.1482
Hunter-Lab	67.2579, 20.9312, -24.8345

# Details

The XYZ color **52.2361, 45.2363, 81.5797** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **57.6169, 71.3389, 46.3323**, and the grayscale version is **45.2086, 47.5629, 51.7960**.

A 20% lighter version of the original color is **84.8832, 79.6664, 105.5111**, and **25.6756, 21.1084, 43.2785** is the 20% darker color. If you saturate the color by 10%, you get **45.7835, 36.2742, 80.1906**, and if you desaturate by 10%, it is **59.6248, 55.8002, 83.2300**.

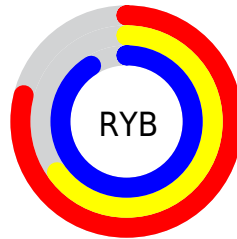
# Distribution



Red (79%)

Green (65%)

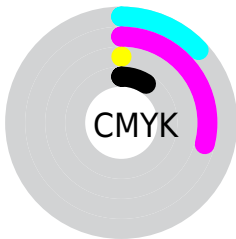
Blue (91%)



Red (79%)

Yellow (65%)

Blue (91%)

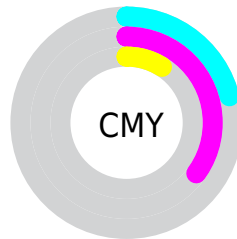


Cyan (13%)

Magenta (29%)

Yellow (0%)

Black (9%)



Cyan (21%)

Magenta (35%)


Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.2361, 45.2363, 81.5797 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 52.2361, 45.2363, 81.5797 by changing the saturation by 10% instead.





 52.2361, 45.2363,  
81.5797


 52.2361, 45.2363,  
81.5797


385.6564,  
367.7297, 520.0872

 37.4183, 31.6436,  
60.4854

 92.6515, 83.0749,  
137.4158

 25.7067, 21.0894,  
43.3821


 118.9799,  
108.0896, 172.9947

 16.7359, 13.1894,  
29.8514


149.8758,  
137.6803, 214.2388

 10.1405, 7.5591,  
19.4747

185.7046,  
172.2316, 261.5667

 5.5552, 3.8141,  
11.8335

226.8318,  
212.1278, 315.3970

 2.6146, 1.5701,  
6.5093

273.6225,

 0.9534, 0.3373,

257.7533, 376.1481

3.0834

326.4423,  
309.4925, 444.2387

■ 0.0000, 0.0000,  
1.1374

■ 0.0000, 0.0000,  
0.0000

■ 52.2361, 45.2363,  
81.5797

■ 52.2361, 45.2363,  
81.5797

■ 45.7835, 36.2742,  
80.1906

■ 59.6248, 55.8002,  
83.2300

■ 40.2186, 28.8255,  
79.0462

■ 67.9859, 68.0371,  
85.1513

■ 35.4950, 22.8014,  
78.1324

■ 77.3593, 82.0203,  
87.3563

■ 31.5597, 18.1017,  
77.4327

■ 87.0091, 96.2736,  
89.5989

■ 28.3528, 14.6120,  
76.9281

■ 90.6019, 98.1258,  
89.7670

■ 25.8042, 12.1980,  
76.5965

■ 91.4240, 98.5496,  
89.8055

■ 23.8124, 10.6628,  
76.4051

■ 23.5534, 10.4760,  
76.3827

# Harmonies

## Analogous

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



45.8193, 45.2363, 94.4628



52.2361, 45.2363, 81.5797



56.4031, 45.2363, 61.1584

# Triad

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



52.2361, 45.2363, 81.5797



46.9728, 45.2363, 21.9016



31.6614, 45.2363, 57.6019

# Complementary

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



52.2361, 45.2363, 81.5797



57.6169, 71.3389, 46.3323

# 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.



31.9016, 45.2363, 39.0053



52.2361, 45.2363, 81.5797



40.2906, 45.2363, 21.4150

# Square

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



52.2361, 45.2363, 81.5797



53.1554, 45.2363, 28.4075



34.9149, 45.2363, 26.8443



34.2209, 45.2363, 78.4037



# Rectangle

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



52.2361, 45.2363, 81.5797



57.1055, 45.2363, 47.6964



34.9149, 45.2363, 26.8443



31.4256, 45.2363, 50.8464

# Sweetspot

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



52.2376, 45.2382, 81.5807



84.5475, 84.3587, 106.4345



49.3904, 52.6665, 83.1646



17.7542, 17.5513, 22.7019



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.



52.2376, 45.2382, 81.5807



60.6950, 50.0733, 101.0739



60.3733, 49.4857, 79.5512



14.3519, 14.2836, 18.1449



13.3493, 5.9477, 42.8276



1.0927, 0.4943, 3.1698



# Inverse Universe

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



56.1491, 47.7960, 57.3067



66.4868, 53.8516, 65.5349



51.1903, 67.9907, 47.6199



14.6387, 14.4727, 16.2979



19.8657, 10.0805, 8.1879

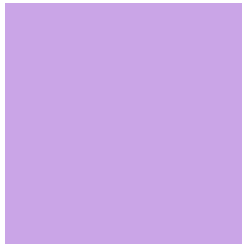


1.5140, 0.7633, 0.8474



# Previews

## White Background



This preview shows how the XYZ color 52.2361, 45.2363, 81.5797 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

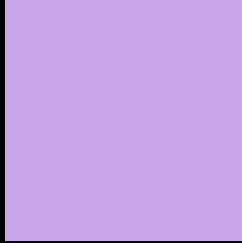
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 52.2361, 45.2363, 81.5797 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 52.2361, 45.2363, 81.5797**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.2361, 45.2363, 81.5797.



This preview shows how white text looks on a background with the XYZ color 52.2361, 45.2363,



# 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

52.2361, 45.2363, 81.5797

### Protanopia

46.3506, 45.4169, 88.7615

### Deuteranopia

46.4628, 45.3657, 80.4364



## Tritanopia

46.4189, 45.0771, 53.2679

# Trichromacy



## Original Color

52.2361, 45.2363, 81.5797

## Protanomaly

48.3611, 45.3487, 86.3250

## Deuteranomaly

48.3269, 45.1633, 81.0332

## Tritanomaly

48.4429, 45.0670, 62.6455

# Monochromacy



## Original Color

52.2361, 45.2363, 81.5797

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

47.7506, 46.7377, 61.7629

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.2361, 45.2363, 81.5797 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(202, 165, 231)` looks like.

```
.text, #text, p{  
    color:rgb(202, 165, 231)  
}
```

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(202, 165, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 165, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 52.2361, 45.2363, 81.5797 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(202, 165, 231) }
```



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

```
.border{ border-color:rgb(202, 165, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 165, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 165, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 165, 231);  
box-shadow:4px 4px 4px 4px rgb(202, 165,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.2361, 45.2363, 81.5797 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 165, 231) }
```

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

```
.background{ background-color: rgb(202,  
165, 231) }
```

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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