

# Converting Colors

XYZ(45.2890, 23.8626, 58.7165)

Have a look what the booklet for  
XYZ(45.2890, 23.8626, 58.7165)  
contains.

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# Color

**XYZ(45.2420, 23.8353,  
58.7161)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E833CB
RGB	232, 51, 203
RGB Percent	91%, 20%, 80%
CMY	0.0902, 0.8000, 0.2039
CMYK	0.00, 0.78, 0.13, 0.09
HSL	310°, 80%, 55%
HSV	310°, 78%, 91%
XYZ	45.2420, 23.8353, 58.7161
YIQ	122.4470, 59.0840, 85.6440

# Conversions

## Conversions Part 2

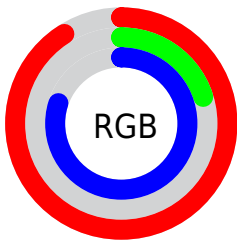
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	232, 51, 203
Decimal	15217611
CIE Lab	55.92, 80.38, -38.79
CIE LCh	56, 89.253, 334.242
Yxy	23.8353, 0.3540, 0.1865
Android (android.graphics.Color)	4293407691 (0xFFE833CB)
YUV	122.4470, 39.7126, 96.0780
Hunter-Lab	48.8214, 79.9756, -37.1314

# Details

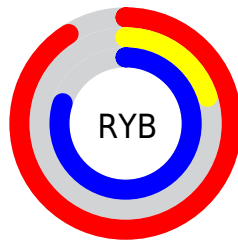
The XYZ color **45.2420, 23.8353, 58.7161** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light washed magenta. A complement of this color would be **31.6711, 58.9971, 17.3102**, and the grayscale version is **18.5074, 19.4713, 21.2042**.

A 20% lighter version of the original color is **65.6513, 41.2026, 99.1004**, and **22.3586, 10.9088, 28.9441** is the 20% darker color. If you saturate the color by 10%, you get **44.0315, 22.1142, 56.1531**, and if you desaturate by 10%, it is **46.9699, 26.5731, 61.5043**.

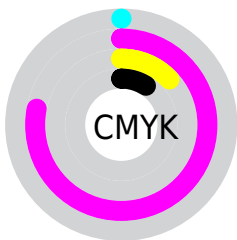
# Distribution



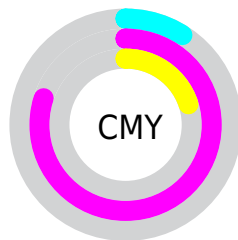
- Red (91%)
- Green (20%)
- Blue (80%)



- Red (91%)
- Yellow (20%)
- Blue (80%)



- Cyan (0%)
- Magenta (78%)
- Yellow (13%)
- Black (9%)




- Cyan (9%)
- Magenta (80%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2420, 23.8353, 58.7161 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 45.2420, 23.8353, 58.7161 by changing the saturation by 10% instead.





 45.2420, 23.8353,  
58.7161

 45.2420, 23.8353,  
58.7161

358.5200,  
271.9868, 437.5216


 31.8502, 15.2115,  
41.9661

 82.3183, 49.7613,  
104.4900

 21.4021, 8.9680,  
28.7494

 106.7334, 67.8323,  
134.3510


 13.5324, 4.7203,  
18.6474


 135.5537, 89.8211,  
169.4194

 7.8757, 2.0841,  
11.2415

 169.1445,  
116.1122, 210.1137

 4.0666, 0.6557,  
6.1133

 207.8712,  
147.0899, 256.8526

 1.7399, 0.0000,  
2.8442

252.0991,

 0.4810, 0.0000,

183.1386, 310.0545

1.0156

302.1936,  
224.6428, 370.1380

■ 0.0000, 0.0000,  
0.0000

■ 45.2420, 23.8353,  
58.7161

■ 45.2420, 23.8353,  
58.7161

■ 44.0315, 22.1142,  
56.1531

■ 46.9699, 26.5731,  
61.5043

■ 43.2434, 21.2218,  
53.7828


■ 49.2790, 30.4566,  
64.5389


■ 43.1097, 21.0882,  
53.3253


■ 52.2264, 35.5996,  
67.8394


■ 55.8617, 42.1009,  
71.4226

■ 60.2296, 50.0499,  
75.3039

 65.3708, 59.5280,  
79.4971

 71.3232, 70.6108,  
84.0152

 78.1220, 83.3688,  
88.8703

 84.2458, 94.7587,  
93.5556

# Harmonies

## Analogous

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



35.5449, 23.8353, 105.3074



45.2420, 23.8353, 58.7161



48.3068, 23.8353, 22.0240

# Triad

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



45.2420, 23.8353, 58.7161



21.2379, 23.8353, 0.5181



10.0237, 23.8353, 71.9797

# Complementary

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



45.2420, 23.8353, 58.7161



31.6711, 58.9971, 17.3102

# 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.



8.2077, 23.8353, 30.3226



45.2420, 23.8353, 58.7161



13.3319, 23.8353, 1.7241

# Square

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



45.2420, 23.8353, 58.7161



32.2661, 23.8353, 1.1296



9.2065, 23.8353, 8.4230



15.1711, 23.8353, 116.2092



# Rectangle

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



45.2420, 23.8353, 58.7161



45.5897, 23.8353, 9.0734



9.2065, 23.8353, 8.4230



9.0870, 23.8353, 56.4314

# Sweetspot

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



45.2428, 23.8365, 58.7165



77.6325, 67.5274, 95.8115



18.9050, 9.8215, 77.2438



16.1361, 13.5699, 20.1097



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.



45.2428, 23.8365, 58.7165



53.8865, 26.5987, 67.6619



37.5210, 20.7477, 18.0539



14.8907, 14.5735, 17.6248



23.9719, 11.7230, 29.8106



1.7981, 0.8770, 2.3435



# Inverse Universe

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



45.2428, 23.8365, 58.7165



53.8865, 26.5987, 67.6619



37.3517, 61.2694, 47.2240



14.8907, 14.5735, 17.6248



23.9719, 11.7230, 29.8106



1.7981, 0.8770, 2.3435



# Previews

## White Background



This preview shows how the XYZ color 45.2420, 23.8353, 58.7161 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

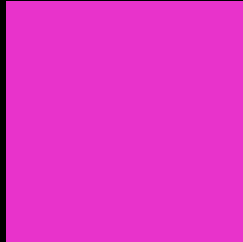
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 45.2420, 23.8353, 58.7161 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

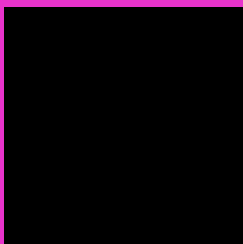
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 45.2420, 23.8353, 58.7161**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2420, 23.8353, 58.7161.



This preview shows how white text looks on a background with the XYZ color 45.2420, 23.8353,



# 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

45.2420, 23.8353, 58.7161

### Protanopia

28.2126, 24.3091, 97.8129

### Deuteranopia

24.7120, 24.0915, 53.2168



## Tritanopia

35.8917, 23.6865, 13.7466

# Trichromacy



## Original Color

45.2420, 23.8353, 58.7161



## Protanomaly

28.3982, 19.7991, 81.6817



## Deuteranomaly

28.5244, 20.7539, 54.7271



## Tritanomaly

38.3216, 23.0869, 25.3581

# Monochromacy



## Original Color

45.2420, 23.8353, 58.7161



## Achromatopsia

18.4984, 19.4618, 21.1939



## Achromatomaly

24.6691, 18.2815, 31.5066

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2420, 23.8353, 58.7161 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(232, 51, 203)` looks like.

```
.text, #text, p{  
    color:rgb(232, 51, 203)  
}
```

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(232, 51, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 51, 203) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2420, 23.8353, 58.7161 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(232, 51, 203) }
```



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

```
.border{ border-color:rgb(232, 51, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 51, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 51, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 51, 203);  
box-shadow:4px 4px 4px 4px rgb(232, 51,  
203) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2420, 23.8353, 58.7161 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 51, 203) }
```

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

```
.background{ background-color: rgb(232, 51,  
203) }
```

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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