

# Converting Colors

XYZ(40.9681, 19.8618, 58.7526)

Have a look what the booklet for  
XYZ(40.9681, 19.8618, 58.7526)  
contains.

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# Color

**XYZ(41.0233, 19.8892,  
58.8036)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE00CC
RGB	222, 0, 204
RGB Percent	87%, 0%, 80%
CMY	0.1294, 0.9999, 0.2000
CMYK	0.00, 1.00, 0.08, 0.13
HSL	305°, 100%, 44%
HSV	305°, 100%, 87%
XYZ	41.0233, 19.8892, 58.8036
YIQ	89.6340, 66.8280, 110.5080

# Conversions

## Conversions Part 2

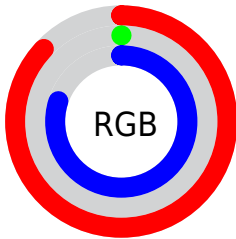
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	222, 0, 204
Decimal	14549196
CIE <sub>Lab</sub>	51.71, 86.00, -46.13
CIE <sub>LCh</sub>	52, 97.591, 331.793
Yxy	19.8892, 0.3427, 0.1661
Android (android.graphics.Color)	4292739276 (0xFFDE00CC)
YUV	89.6340, 56.3824, 116.0850
Hunter-Lab	44.5973, 86.1498, -46.9585

# Details

The XYZ color **41.0233, 19.8892, 58.8036** is a dark color, and the websafe version is hex **CC00CC**. The color can be described as middle washed magenta. A complement of this color would be **26.2315, 52.2872, 9.2837**, and the grayscale version is **9.5088, 10.0040, 10.8943**.

A 20% lighter version of the original color is **63.4729, 36.8457, 98.3743**, and **20.3251, 9.8513, 29.2640** is the 20% darker color. If you saturate the color by 10%, you get **41.0234, 19.8893, 58.8021**, and if you desaturate by 10%, it is **41.5324, 20.5591, 60.0450**.

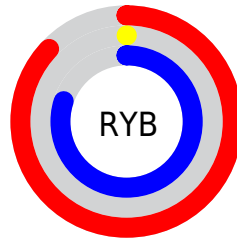
# Distribution



Red (87%)

Green (0%)

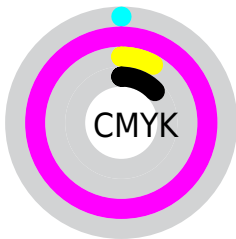
Blue (80%)



Red (87%)

Yellow (0%)

Blue (80%)

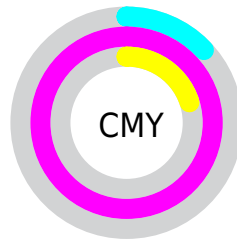


Cyan (0%)

Magenta (100%)

Yellow (8%)

Black (13%)



Cyan (13%)

Magenta (100%)


Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.0233, 19.8892, 58.8036 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 41.0233, 19.8892, 58.8036 by changing the saturation by 10% instead.



 41.0233, 19.8892,  
58.8036


 41.0233, 19.8892,  
58.8036


341.4789,  
251.3147, 437.8553

 28.5250, 12.3145,  
42.0361


 75.9937, 43.2313,  
104.6185

 18.8643, 6.9583,  
28.8038


 99.1966, 59.7676,  
134.5029

 11.6757, 3.4360,  
18.6881


 126.6985, 80.0598,  
169.5967

 6.5939, 1.3634,  
11.2706

 158.8646,  
104.4925, 210.3184

 3.2535, 0.1895,  
6.1327

 196.0603,  
133.4499, 257.0866

 1.2892, 0.0000,  
2.8558

 238.6510,

 0.1751, 0.0000,

167.3164, 310.3198

1.0215

287.0021,  
206.4766, 370.4365

■ 0.0000, 0.0000,  
0.0000

■ 41.0233, 19.8892,  
58.8036

■ 41.0233, 19.8892,  
58.8036

■ 41.0234, 19.8893,  
58.8021

■ 41.5324, 20.5591,  
60.0450

■ 42.3776, 21.8981,  
61.4107

■ 43.6685, 24.1241,  
62.9374

■ 45.4664, 27.3603,  
64.6455

■ 47.8233, 31.7104,  
66.5524

■ 50.7847, 37.2654,  
68.6733

■ 54.3912, 44.1066,  
71.0219

■ 58.6802, 52.3086,  
73.6105

■ 63.6859, 61.9401,  
76.4506

# Harmonies

## Analogous

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



30.7584, 19.8892, 108.3814



41.0233, 19.8892, 58.8036



44.8983, 19.8892, 20.0006

# Triad

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



41.0233, 19.8892, 58.8036



18.3169, 19.8892, 0.0000



6.9330, 19.8892, 64.7207

# Complementary

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



41.0233, 19.8892, 58.8036



26.2315, 52.2872, 9.2837

# 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.



5.5791, 19.8892, 23.4002



41.0233, 19.8892, 58.8036



10.5699, 19.8892, 0.4342

# Square

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



41.0233, 19.8892, 58.8036



29.3583, 19.8892, 0.2207



6.6334, 19.8892, 4.7930



11.2830, 19.8892, 113.4302



# Rectangle

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



41.0233, 19.8892, 58.8036



42.5446, 19.8892, 7.1034



6.6334, 19.8892, 4.7930



6.1973, 19.8892, 48.7234

# Sweetspot

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



41.0241, 19.8902, 58.8040



74.3272, 60.1270, 97.1441



13.3796, 5.3749, 69.4403



15.4383, 11.9746, 20.4928



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.



41.0241, 19.8902, 58.8040



56.1374, 27.2189, 80.3784



32.2464, 16.3791, 12.5814



14.2446, 13.9155, 17.0580



24.3865, 11.8216, 35.0304



1.7047, 0.8252, 2.5040



# Inverse Universe

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



41.0241, 19.8902, 58.8040



56.1374, 27.2189, 80.3784



29.8760, 53.7450, 28.4755



14.2446, 13.9155, 17.0580



24.3865, 11.8216, 35.0304



1.7047, 0.8252, 2.5040



# Previews

## White Background



This preview shows how the XYZ color 41.0233, 19.8892, 58.8036 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

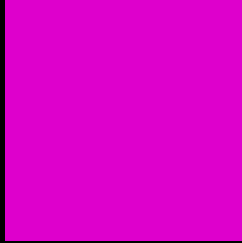
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.0233, 19.8892, 58.8036 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

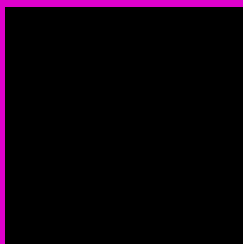
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 41.0233, 19.8892, 58.8036**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.0233, 19.8892, 58.8036.



This preview shows how white text looks on a background with the XYZ color 41.0233, 19.8892,



# 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

41.0233, 19.8892, 58.8036

### Protanopia

24.8916, 20.7175, 97.2947

### Deuteranopia

21.2617, 20.7483, 52.7534



## Tritanopia

31.0867, 20.0948, 10.8346

# Trichromacy



## Original Color

41.0233, 19.8892, 58.8036



## Protanomaly

21.6552, 13.2512, 80.7733



## Deuteranomaly

23.4799, 15.2118, 53.9232



## Tritanomaly

32.8117, 18.2223, 22.2100

# Monochromacy



## Original Color

41.0233, 19.8892, 58.8036



## Achromatopsia

9.7181, 10.2242, 11.1341



## Achromatomaly

16.0411, 9.9682, 22.5513

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.0233, 19.8892, 58.8036 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(222, 0, 204)` looks like.

```
.text, #text, p{  
    color:rgb(222, 0, 204)  
}
```

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(222, 0, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 0, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 41.0233, 19.8892, 58.8036 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(222, 0, 204) }
```



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

```
.border{ border-color:rgb(222, 0, 204) }
```

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

Here you see how a box with a 4 pixel rgb(222, 0, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 0, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 0, 204);  
box-shadow:4px 4px 4px 4px rgb(222, 0,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.0233, 19.8892, 58.8036 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 0, 204) }
```

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

```
.background{ background-color: rgb(222, 0,  
204) }
```

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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