

# Converting Colors

XYZ(40.2363, 19.0731, 82.4536)

Have a look what the booklet for  
XYZ(40.2363, 19.0731, 82.4536)  
contains.

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# Color

**XYZ(40.1372, 19.0215,  
82.4450)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB07EE
RGB	203, 7, 238
RGB Percent	80%, 3%, 93%
CMY	0.2039, 0.9725, 0.0667
CMYK	0.15, 0.97, 0.00, 0.07
HSL	291°, 94%, 48%
HSV	291°, 97%, 93%
XYZ	40.1372, 19.0215, 82.4450
YIQ	91.9380, 42.6650, 113.3930

# Conversions

## Conversions Part 2

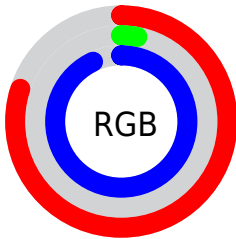
<b>Format</b>	<b>Color</b>
<b>RYB</b>	203, 7, 238
Decimal	13305838
CIELab	50.71, 87.57, -67.27
CIElCh	51, 110.424, 322.469
Yxy	19.0215, 0.2834, 0.1343
Android (android.graphics.Color)	4291495918 (0xFFCB07EE)
YUV	91.9380, 72.0086, 97.4014
Hunter-Lab	43.6136, 87.9479, -81.5492

# Details

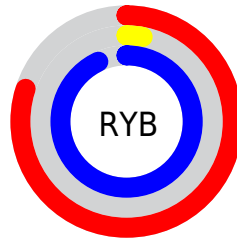
The XYZ color **40.1372, 19.0215, 82.4450** is a dark color, and the websafe version is hex **CC33FF**. The color can be described as middle washed magenta. A complement of this color would be **31.5687, 61.6573, 10.4388**, and the grayscale version is **9.9944, 10.5149, 11.4507**.

A 20% lighter version of the original color is **63.4729, 36.8457, 98.3743**, and **19.6682, 9.1758, 44.4505** is the 20% darker color. If you saturate the color by 10%, you get **39.7732, 18.7211, 82.4065**, and if you desaturate by 10%, it is **41.5408, 20.3527, 82.6283**.

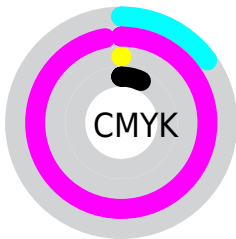
# Distribution



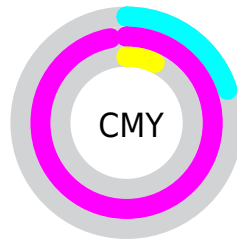
- Red (80%)
- Green (3%)
- Blue (93%)



- Red (80%)
- Yellow (3%)
- Blue (93%)



- Cyan (15%)
- Magenta (97%)
- Yellow (0%)
- Black (7%)




- Cyan (20%)
- Magenta (97%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1372, 19.0215, 82.4450 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 40.1372, 19.0215, 82.4450 by changing the saturation by 10% instead.





 40.1372, 19.0215,  
82.4450


 40.1372, 19.0215,  
82.4450

337.8260,  
246.5674, 523.0575


 27.8302, 11.6858,  
61.1945


 74.6554, 41.7704,  
138.6401


 18.3375, 6.5301,  
43.9505


 97.5973, 57.9525,  
174.4218


 11.2937, 3.1700,  
30.2947


 124.8150, 77.8521,  
215.8843

 6.3335, 1.2211,  
19.8084

 156.6737,  
101.8536, 263.4461

 3.0915, 0.0789,  
12.0732

 193.5387,  
130.3415, 317.5258

 1.2023, 0.0000,  
6.6704

 235.7756,

 0.1082, 0.0000,

163.7002, 378.5419

3.1815

283.7496,  
202.3141, 446.9129

■ 0.0000, 0.0000,  
1.1881

■ 0.0000, 0.0000,  
0.0000

■ 40.1372, 19.0215,  
82.4450

■ 40.1372, 19.0215,  
82.4450

■ 39.7732, 18.7211,  
82.4065

■ 41.5408, 20.3527,  
82.6283

■ 43.4204, 22.6026,  
82.9635

■ 45.8663, 25.9509,  
83.4809

■ 48.9480, 30.5363,  
84.2035

■ 52.7250, 36.4772,  
85.1512

■ 57.2493, 43.8780,  
86.3412

■ 62.5683, 52.8327,  
87.7893

■ 68.7250, 63.4276,  
89.5098

■ 75.7596, 75.7424,  
91.5161

# Harmonies

## Analogous

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



27.2649, 19.0215, 139.1961



40.1372, 19.0215, 82.4450



47.5863, 19.0215, 29.5541

# Triad

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



40.1372, 19.0215, 82.4450



20.9489, 19.0215, 0.0000



4.8545, 19.0215, 52.8960

# Complementary

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



40.1372, 19.0215, 82.4450



31.5687, 61.6573, 10.4388

# 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.



4.2942, 19.0215, 13.8357



40.1372, 19.0215, 82.4450



11.2303, 19.0215, 0.0000

# Square

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



40.1372, 19.0215, 82.4450



33.9674, 19.0215, 0.0000



6.0816, 19.0215, 1.4820



8.1278, 19.0215, 113.1687



# Rectangle

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



40.1372, 19.0215, 82.4450



46.9948, 19.0215, 10.3172



6.0816, 19.0215, 1.4820



4.4148, 19.0215, 36.4444

# Sweetspot

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



40.1381, 19.0223, 82.4454



71.8212, 59.4845, 102.3040



16.4788, 8.1348, 81.5909



14.7957, 11.7589, 21.7398



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.



40.1381, 19.0223, 82.4454



46.4761, 21.8742, 96.3803



41.7699, 20.9031, 35.5545



16.2052, 15.9030, 19.9371



22.2778, 10.4900, 45.9785



1.9164, 0.9052, 3.8279



# Inverse Universe

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



35.7545, 18.4969, 3.8779



41.6002, 21.4041, 3.8269



32.2633, 61.8349, 18.6251



15.8704, 15.7979, 16.8738



19.8789, 10.2240, 2.0130



1.6831, 0.8623, 0.3218



# Previews

## White Background



This preview shows how the XYZ color 40.1372, 19.0215, 82.4450 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

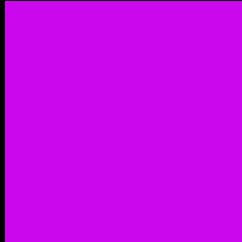
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.1372, 19.0215, 82.4450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

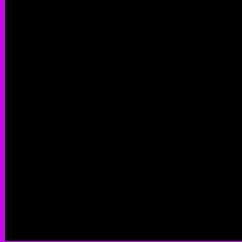
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 40.1372, 19.0215, 82.4450**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1372, 19.0215, 82.4450.



This preview shows how white text looks on a background with the XYZ color 40.1372, 19.0215,



# 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

40.1372, 19.0215, 82.4450

### Deuteranopia

19.9938, 19.5298, 69.7337

### Tritanopia

26.2222, 19.0631, 14.3541

# Trichromacy



## Original Color

40.1372, 19.0215, 82.4450

## Deuteranomaly

19.4939, 12.8317, 73.4008

## Tritanomaly

28.9659, 16.8537, 30.5806

# Monochromacy



## Original Color

40.1372, 19.0215, 82.4450

## Achromatopsia

10.1725, 10.7023, 11.6548

## Achromatomaly

16.2953, 10.2874, 27.9149

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1372, 19.0215, 82.4450 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(203, 7, 238)` looks like.

```
.text, #text, p{  
    color:rgb(203, 7, 238)  
}
```

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(203, 7, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 7, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1372, 19.0215, 82.4450 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(203, 7, 238) }
```

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

```
.border{ border-color:rgb(203, 7, 238) }
```

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

Here you see how a box with a 4 pixel rgb(203, 7, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 7, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 7, 238);  
box-shadow:4px 4px 4px 4px rgb(203, 7,  
238) }
```



# Background

The CSS property to change the background color of an element to XYZ 40.1372, 19.0215, 82.4450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 7, 238) }
```

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

```
.background{ background-color: rgb(203, 7,  
238) }
```

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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