

# Converting Colors

XYZ(41.7777, 20.1857, 63.0159)

Have a look what the booklet for  
XYZ(41.7777, 20.1857, 63.0159)  
contains.

<b>XYZ(41.8821, 20.2327, 63.3259)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(41.8821, 20.2327,  
63.3259)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE00D3
RGB	222, 0, 211
RGB Percent	87%, 0%, 83%
CMY	0.1294, 0.9999, 0.1725
CMYK	0.00, 1.00, 0.05, 0.13
HSL	303°, 100%, 44%
HSV	303°, 100%, 87%
XYZ	41.8821, 20.2327, 63.3259
YIQ	90.4320, 64.5810, 112.6850

# Conversions

## Conversions Part 2

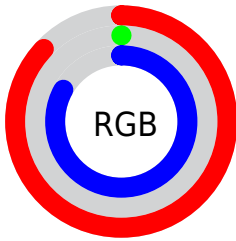
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	222, 0, 211
Decimal	14549203
CIE <sub>Lab</sub>	52.10, 86.95, -49.53
CIE <sub>LCh</sub>	52, 100.068, 330.332
Yxy	20.2327, 0.3339, 0.1613
Android (android.graphics.Color)	4292739283 (0xFFDE00D3)
YUV	90.4320, 59.4400, 115.3851
Hunter-Lab	44.9808, 87.4870, -51.9845

# Details

The XYZ color **41.8821, 20.2327, 63.3259** 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 **26.1826, 52.2678, 9.0263**, and the grayscale version is **9.6798, 10.1839, 11.0903**.

A 20% lighter version of the original color is **63.5647, 37.0294, 98.4049**, and **20.9010, 10.0817, 32.2968** is the 20% darker color. If you saturate the color by 10%, you get **41.8824, 20.2329, 63.3251**, and if you desaturate by 10%, it is **42.3124, 20.8711, 64.1524**.

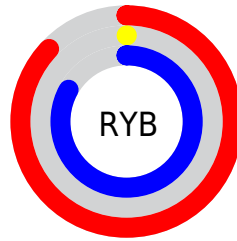
# Distribution



Red (87%)

Green (0%)

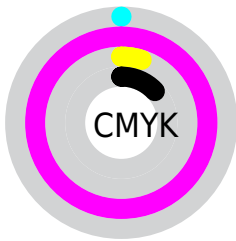
Blue (83%)



Red (87%)

Yellow (0%)

Blue (83%)

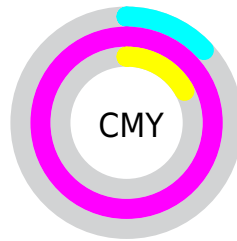


Cyan (0%)

Magenta (100%)

Yellow (5%)

Black (13%)



Cyan (13%)

Magenta (100%)


Yellow (17%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8821, 20.2327, 63.3259 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 41.8821, 20.2327, 63.3259 by changing the saturation by 10% instead.




 41.8821, 20.2327,  
63.3259


 41.8821, 20.2327,  
63.3259


344.9939,  
253.1721, 454.8917


 29.1997, 12.5643,  
45.6622

 77.2874, 43.8070,  
111.2297


 19.3770, 7.1292,  
31.6326


 100.7411, 60.4817,  
142.3068


 12.0486, 3.5430,  
20.8185


 128.5158, 80.9272,  
178.6922

 6.8492, 1.4214,  
12.8015

 160.9771,  
105.5281, 220.8044

 3.4135, 0.2324,  
7.1629

 198.4902,  
134.6686, 269.0619

 1.3760, 0.0000,  
3.4842

 241.4204,

 0.2390, 0.0000,

168.7331, 323.8833

1.3469

290.1332,  
208.1062, 385.6870

■ 0.0000, 0.0000,  
0.0997

■ 0.0000, 0.0000,  
0.0000

■ 41.8821, 20.2327,  
63.3259

■ 41.8821, 20.2327,  
63.3259

■ 41.8824, 20.2329,  
63.3251

■ 42.3124, 20.8711,  
64.1524

■ 43.0773, 22.1778,  
65.0949

■ 44.2861, 24.3709,  
66.1901

■ 46.0005, 27.5736,  
67.4585

■ 48.2722, 31.8896,  
68.9174

■ 51.1469, 37.4097,  
70.5820

■ 54.6651, 44.2155,  
72.4658

■ 58.8642, 52.3815,  
74.5812

■ 63.7784, 61.9762,  
76.9398

# Harmonies

## Analogous

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



30.9711, 20.2327, 115.1789



41.8821, 20.2327, 63.3259



46.3646, 20.2327, 21.7053

# Triad

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



41.8821, 20.2327, 63.3259



19.1169, 20.2327, 0.0000



6.7601, 20.2327, 64.4752

# Complementary

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



41.8821, 20.2327, 63.3259



26.1826, 52.2678, 9.0263

# 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.



5.5060, 20.2327, 22.3578



41.8821, 20.2327, 63.3259



10.9101, 20.2327, 0.2416

# Square

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



41.8821, 20.2327, 63.3259



30.7007, 20.2327, 0.2011



6.7035, 20.2327, 4.2572



11.0458, 20.2327, 116.1645



# Rectangle

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



41.8821, 20.2327, 63.3259



44.1966, 20.2327, 7.6823



6.7035, 20.2327, 4.2572



6.0555, 20.2327, 47.9689

# Sweetspot

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



41.8829, 20.2337, 63.3263



74.7056, 60.2783, 99.1367



13.2784, 5.3226, 69.4358



15.5303, 12.0114, 20.9774



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.



41.8829, 20.2337, 63.3263



57.3214, 27.6926, 86.6137



32.6043, 16.5222, 14.4657



14.2641, 13.9233, 17.1612



24.8895, 12.0228, 37.6795



1.7344, 0.8370, 2.6600



# Inverse Universe

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



41.8829, 20.2337, 63.3263



57.3214, 27.6926, 86.6137



29.4168, 53.5614, 26.0572



14.2641, 13.9233, 17.1612



24.8895, 12.0228, 37.6795



1.7344, 0.8370, 2.6600



# Previews

## White Background



This preview shows how the XYZ color 41.8821, 20.2327, 63.3259 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

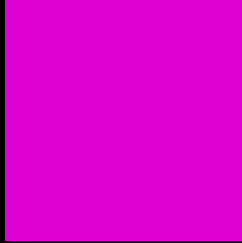
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8821, 20.2327, 63.3259 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

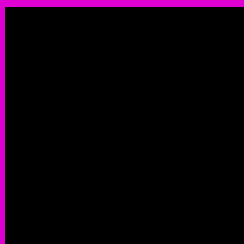
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 41.8821, 20.2327, 63.3259**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8821, 20.2327, 63.3259.



This preview shows how white text looks on a background with the XYZ color 41.8821, 20.2327,



# 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

41.8821, 20.2327, 63.3259

### Protanopia

25.2182, 21.0653, 97.3446

### Deuteranopia

21.4916, 20.9774, 56.3424



## Tritanopia

31.4331, 20.5927, 11.5506

# Trichromacy



## Original Color

41.8821, 20.2327, 63.3259



## Protanomaly

22.9532, 13.9726, 83.1486



## Deuteranomaly

23.6398, 15.2000, 58.1879



## Tritanomaly

33.2383, 18.5358, 24.0162

# Monochromacy



## Original Color

41.8821, 20.2327, 63.3259



## Achromatopsia

9.7181, 10.2242, 11.1341



## Achromatomaly

16.2474, 10.0508, 23.6379

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8821, 20.2327, 63.3259 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, 211)` looks like.

```
.text, #text, p{  
    color:rgb(222, 0, 211)  
}
```

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, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 0, 211) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8821, 20.2327, 63.3259 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, 211) }
```



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

```
.border{ border-color:rgb(222, 0, 211) }
```

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, 211) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 0, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 0, 211);  
box-shadow:4px 4px 4px 4px rgb(222, 0,  
211) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8821, 20.2327, 63.3259 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, 211) }
```

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

```
.background{ background-color: rgb(222, 0,  
211) }
```

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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