

Converting Colors

XYZ(33.9138, 16.4421, 48.6216)

Have a look what the booklet for
XYZ(33.9138, 16.4421, 48.6216)
contains.

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Color

**XYZ(33.8715, 16.4252,
48.3989)**

Conversions

Conversions Part 1

Format	Color
Hex	CC00BB
RGB	204, 0, 187
RGB Percent	80%, 0%, 73%
CMY	0.2000, 0.9999, 0.2667
CMYK	0.00, 1.00, 0.08, 0.20
HSL	305°, 100%, 40%
HSV	305°, 100%, 80%
XYZ	33.8715, 16.4252, 48.3989
YIQ	82.3140, 61.5570, 101.4050

Conversions

Conversions Part 2

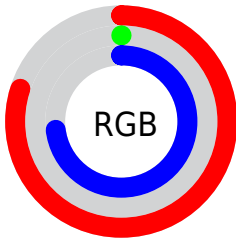
Format	Color
R_{YB}	204, 0, 187
Decimal	13369531
CIE _{Lab}	47.53, 80.66, -43.11
CIE _{LCh}	48, 91.458, 331.881
Yxy	16.4252, 0.3432, 0.1664
Android (android.graphics.Color)	4291559611 (0xFFCC00BB)
YUV	82.3140, 51.6102, 106.7186
Hunter-Lab	40.5280, 78.2583, -42.4350

Details

The XYZ color **33.8715, 16.4252, 48.3989** is a dark color, and the websafe version is hex **CC33CC**. The color can be described as dark washed rose. A complement of this color would be **21.6949, 43.2270, 7.7317**, and the grayscale version is **7.9773, 8.3927, 9.1397**.

A 20% lighter version of the original color is **61.3963, 35.4459, 89.1938**, and **15.9107, 7.7132, 22.8405** is the 20% darker color. If you saturate the color by 10%, you get **33.8716, 16.4253, 48.3978**, and if you desaturate by 10%, it is **34.3128, 17.0142, 49.4495**.

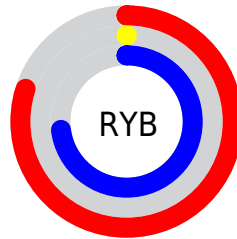
Distribution



Red (80%)

Green (0%)

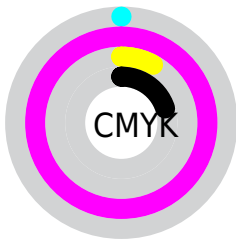
Blue (73%)



Red (80%)

Yellow (0%)

Blue (73%)

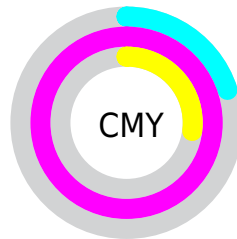


Cyan (0%)

Magenta (100%)

Yellow (8%)

Black (20%)



Cyan (20%)


Magenta (100%)


Yellow (27%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.8715, 16.4252, 48.3989 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 33.8715, 16.4252, 48.3989 by changing the saturation by 10% instead.

 33.8715, 16.4252,
48.3989


 33.8715, 16.4252,
48.3989

311.1547,
231.8378, 396.9253


 22.9573, 9.8255,
33.7807


 65.0794, 37.3348,
89.1698


 14.6825, 5.2834,
22.4491


 86.1039, 52.4135,
116.1594

 8.6817, 2.4145,
13.9858


 111.2291, 71.0874,
148.1100

 4.5896, 0.8333,
7.9722

 140.8205, 93.7408,
185.4401

 2.0408, 0.0000,
3.9896

 175.2434,
120.7582, 228.5681

 0.6567, 0.0000,
1.6197

 214.8632,

 0.0000, 0.0000,

152.5239, 277.9126

0.3048

260.0451,
189.4223, 333.8922

■ 0.0000, 0.0000,
0.0000

■ 33.8715, 16.4252,
48.3989

■ 33.8715, 16.4252,
48.3989

■ 33.8716, 16.4253,
48.3978

■ 34.3128, 17.0142,
49.4495

■ 35.0273, 18.1468,
50.6019

■ 36.1088, 20.0097,
51.8872

■ 37.6068, 22.7023,
53.3221

■ 39.5635, 26.3087,
54.9207

■ 42.0157, 30.9026,
56.6952

■ 44.9964, 36.5501,
58.6568

■ 48.5359, 43.3116,
60.8156

■ 52.6623, 51.2432,
63.1808

Harmonies

Analogous

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



25.4166, 16.4252, 89.2753



33.8715, 16.4252, 48.3989



37.0461, 16.4252, 16.4540

Triad

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



33.8715, 16.4252, 48.3989



15.1039, 16.4252, 0.0000



5.7396, 16.4252, 53.5143

Complementary

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



33.8715, 16.4252, 48.3989



21.6949, 43.2270, 7.7317

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.



4.6155, 16.4252, 19.3951



33.8715, 16.4252, 48.3989



8.7215, 16.4252, 0.2994

Square

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



33.8715, 16.4252, 48.3989



24.2059, 16.4252, 0.0895



5.4802, 16.4252, 3.9890



9.3387, 16.4252, 93.6386

Rectangle

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



33.8715, 16.4252, 48.3989



35.0917, 16.4252, 5.8449



5.4802, 16.4252, 3.9890



5.1299, 16.4252, 40.3145

Sweetspot

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



33.8721, 16.4260, 48.3992



74.3003, 60.1162, 97.0028



11.1311, 4.4797, 57.4054



15.4318, 11.9720, 20.4585



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.



33.8721, 16.4260, 48.3992



56.0549, 27.1859, 79.9439



26.5428, 13.4943, 9.8035



11.6456, 11.3870, 13.9346



21.3357, 10.3449, 30.5501



1.1129, 0.5386, 1.6402

Inverse Universe

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



33.8721, 16.4260, 48.3992



56.0549, 27.1859, 79.9439



24.9240, 44.5186, 24.7360



11.6456, 11.3870, 13.9346



21.3357, 10.3449, 30.5501



1.1129, 0.5386, 1.6402

Previews

White Background



This preview shows how the XYZ color 33.8715, 16.4252, 48.3989 looks on a white background.

Color Contrast Check

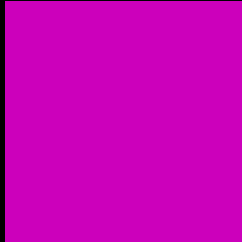
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 33.8715, 16.4252, 48.3989 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

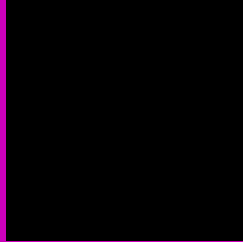
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.8715, 16.4252, 48.3989

Background



This preview shows how black text looks on a background with the XYZ color 33.8715, 16.4252, 48.3989.



This preview shows how white text looks on a background with the XYZ color 33.8715, 16.4252,

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

33.8715, 16.4252, 48.3989

Protanopia

20.6798, 17.3670, 80.8595

Deuteranopia

17.5099, 17.0540, 43.4432



Tritanopia

25.8162, 16.7851, 9.0869

Trichromacy



Original Color

33.8715, 16.4252, 48.3989



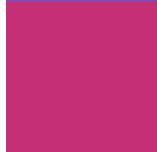
Protanomaly

17.7322, 11.0243, 67.5230



Deuteranomaly

19.5228, 12.6496, 44.5927



Tritanomaly

27.3125, 15.2114, 18.6361

Monochromacy



Original Color

33.8715, 16.4252, 48.3989



Achromatopsia

8.0200, 8.4376, 9.1886



Achromatomaly

13.2223, 8.2477, 18.6644

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.8715, 16.4252, 48.3989 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(204, 0, 187)` looks like.

```
.text, #text, p{  
    color:rgb(204, 0, 187)  
}
```

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(204, 0, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 0, 187) }
```

Border

The CSS property to change the border of an element to XYZ 33.8715, 16.4252, 48.3989 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(204, 0, 187) }
```


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

```
.border{ border-color:rgb(204, 0, 187) }
```

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

Here you see how a box with a 4 pixel rgb(204, 0, 187) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 0, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 0, 187);  
box-shadow:4px 4px 4px 4px rgb(204, 0,  
187) }
```

Background

The CSS property to change the background color of an element to XYZ 33.8715, 16.4252, 48.3989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 0, 187) }
```

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

```
.background{ background-color: rgb(204, 0,  
187) }
```

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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