

Converting Colors

XYZ(33.9983, 16.4761, 49.0612)

Have a look what the booklet for
XYZ(33.9983, 16.4761, 49.0612)
contains.

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Color

**XYZ(33.9789, 16.4682,
48.9647)**

Conversions

Conversions Part 1

Format	Color
Hex	CC00BC
RGB	204, 0, 188
RGB Percent	80%, 0%, 74%
CMY	0.2000, 0.9999, 0.2627
CMYK	0.00, 1.00, 0.08, 0.20
HSL	305°, 100%, 40%
HSV	305°, 100%, 80%
XYZ	33.9789, 16.4682, 48.9647
YIQ	82.4280, 61.2360, 101.7160

Conversions

Conversions Part 2

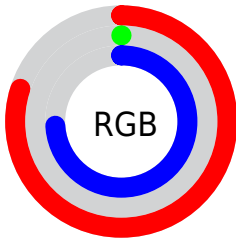
Format	Color
RYB	204, 0, 188
Decimal	13369532
CIELab	47.58, 80.80, -43.60
CIELCh	48, 91.813, 331.647
Yxy	16.4682, 0.3418, 0.1657
Android (android.graphics.Color)	4291559612 (0xFFCC00BC)
YUV	82.4280, 52.0470, 106.6186
Hunter-Lab	40.5810, 78.4430, -43.1321

Details

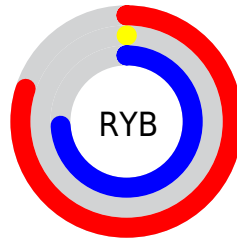
The XYZ color **33.9789, 16.4682, 48.9647** is a dark color, and the websafe version is hex **CC33CC**. The color can be described as dark washed rose. A complement of this color would be **21.6872, 43.2238, 7.6914**, and the grayscale version is **7.9996, 8.4162, 9.1652**.

A 20% lighter version of the original color is **61.5486, 35.5069, 89.9957**, and **15.9801, 7.7410, 23.2062** is the 20% darker color. If you saturate the color by 10%, you get **33.9789, 16.4682, 48.9635**, and if you desaturate by 10%, it is **34.4106, 17.0534, 49.9646**.

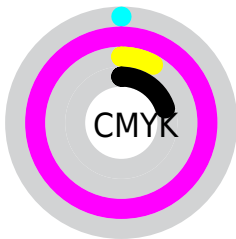
Distribution



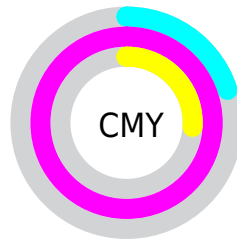
- Red (80%)
- Green (0%)
- Blue (74%)



- Red (80%)
- Yellow (0%)
- Blue (74%)



- Cyan (0%)
- Magenta (100%)
- Yellow (8%)
- Black (20%)





- Cyan (20%)
- Magenta (100%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9789, 16.4682, 48.9647 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 33.9789, 16.4682, 48.9647 by changing the saturation by 10% instead.

 33.9789, 16.4682,
48.9647


 33.9789, 16.4682,
48.9647


311.6255,
232.0888, 399.2218


 23.0402, 9.8561,
34.2261


 65.2454, 37.4091,
90.0195


 14.7441, 5.3036,
22.7886


 86.3038, 52.5067,
117.1727

 8.7251, 2.4265,
14.2336


 111.4663, 71.2016,
149.3012

 4.6180, 0.8395,
8.1427

 141.0981, 93.8781,
186.8235

 2.0573, 0.0000,
4.0973

 175.5645,
120.9207, 230.1582

 0.6659, 0.0000,
1.6789

 215.2310,

 0.0000, 0.0000,

152.7138, 279.7238

0.3462

260.4629,
189.6417, 335.9388

■ 0.0000, 0.0000,
0.0000

■ 33.9789, 16.4682,
48.9647

■ 33.9789, 16.4682,
48.9647

■ 33.9789, 16.4682,
48.9635

■ 34.4106, 17.0534,
49.9646

■ 35.1153, 18.1821,
51.0649

■ 36.1866, 20.0411,
52.2969

■ 37.6744, 22.7297,
53.6773

■ 39.6205, 26.3319,
55.2199

■ 42.0619, 30.9215,
56.9373

■ 45.0315, 36.5647,
58.8404

■ 48.5598, 43.3218,
60.9393

■ 52.6745, 51.2489,
63.2434

Harmonies

Analogous

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



25.4421, 16.4682, 90.1274



33.9789, 16.4682, 48.9647



37.2304, 16.4682, 16.6672

Triad

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



33.9789, 16.4682, 48.9647



15.2048, 16.4682, 0.0000



5.7169, 16.4682, 53.4781

Complementary

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



33.9789, 16.4682, 48.9647



21.6872, 43.2238, 7.6914

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.



4.6059, 16.4682, 19.2573



33.9789, 16.4682, 48.9647



8.7645, 16.4682, 0.2712

Square

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



33.9789, 16.4682, 48.9647



24.3748, 16.4682, 0.0867



5.4890, 16.4682, 3.9171



9.3073, 16.4682, 93.9803

Rectangle

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



33.9789, 16.4682, 48.9647



35.2995, 16.4682, 5.9176



5.4890, 16.4682, 3.9171



5.1112, 16.4682, 40.2134

Sweetspot

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



33.9795, 16.4690, 48.9650



74.3588, 60.1396, 97.3106



11.0749, 4.4508, 57.4027



15.4460, 11.9776, 20.5332



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.



33.9795, 16.4690, 48.9650



56.2349, 27.2579, 80.8919



26.6812, 13.5497, 10.5326



11.6481, 11.3880, 13.9475



21.4025, 10.3716, 30.9017



1.1157, 0.5397, 1.6550

Inverse Universe

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



33.9795, 16.4690, 48.9650



56.2349, 27.2579, 80.8919



24.7234, 44.4383, 23.6798



11.6481, 11.3880, 13.9475



21.4025, 10.3716, 30.9017



1.1157, 0.5397, 1.6550

Previews

White Background



This preview shows how the XYZ color 33.9789, 16.4682, 48.9647 looks on a white background.

Color Contrast Check

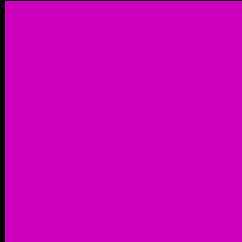
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.9789, 16.4682, 48.9647 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

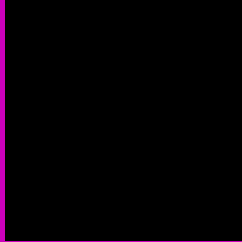
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.9789, 16.4682, 48.9647

Background



This preview shows how black text looks on a background with the XYZ color 33.9789, 16.4682, 48.9647.



This preview shows how white text looks on a background with the XYZ color 33.9789, 16.4682,

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

33.9789, 16.4682, 48.9647

Protanopia

20.6798, 17.3670, 80.8595

Deuteranopia

17.7227, 17.3206, 44.0041



Tritanopia

25.8162, 16.7851, 9.0869

Trichromacy



Original Color

33.9789, 16.4682, 48.9647



Protanomaly

17.7322, 11.0243, 67.5230



Deuteranomaly

19.6251, 12.6905, 45.1312



Tritanomaly

27.3125, 15.2114, 18.6361

Monochromacy



Original Color

33.9789, 16.4682, 48.9647



Achromatopsia

8.0200, 8.4376, 9.1886



Achromatomaly

13.2834, 8.2721, 18.9857

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.9789, 16.4682, 48.9647 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, 188)` looks like.

```
.text, #text, p{  
    color:rgb(204, 0, 188)  
}
```

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, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 0, 188) }
```

Border

The CSS property to change the border of an element to XYZ 33.9789, 16.4682, 48.9647 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, 188) }
```


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

```
.border{ border-color:rgb(204, 0, 188) }
```

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, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 0, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 0, 188);  
box-shadow:4px 4px 4px 4px rgb(204, 0,  
188) }
```

Background

The CSS property to change the background color of an element to XYZ 33.9789, 16.4682, 48.9647 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, 188) }
```

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

```
.background{ background-color: rgb(204, 0,  
188) }
```

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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