

Converting Colors

XYZ(46.6964, 33.2179, 80.5099)

Have a look what the booklet for
XYZ(46.6964, 33.2179, 80.5099)
contains.

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Color

**XYZ(46.8009, 33.3308,
80.3107)**

Conversions

Conversions Part 1

Format	Color
Hex	CC7DE8
RGB	204, 125, 232
RGB Percent	80%, 49%, 91%
CMY	0.2000, 0.5098, 0.0902
CMYK	0.12, 0.46, 0.00, 0.09
HSL	284°, 70%, 70%
HSV	284°, 46%, 91%
XYZ	46.8009, 33.3308, 80.3107
YIQ	160.8190, 12.7370, 50.0250

Conversions

Conversions Part 2

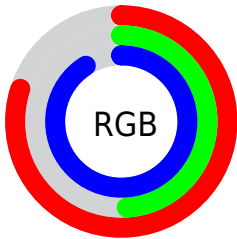
Format	Color
RYB	204, 125, 232
Decimal	13401576
CIELab	64.43, 48.16, -42.04
CIELCh	64, 63.922, 318.883
Yxy	33.3308, 0.2917, 0.2077
Android (android.graphics.Color)	4291591656 (0xFFCC7DE8)
YUV	160.8190, 35.0922, 37.8697
Hunter-Lab	57.7328, 43.6679, -42.0639

Details

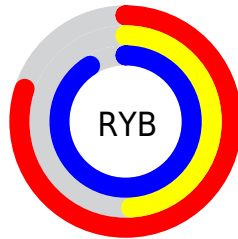
The XYZ color **46.8009, 33.3308, 80.3107** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **45.6962, 65.9670, 29.7280**, and the grayscale version is **33.6316, 35.3831, 38.5322**.

A 20% lighter version of the original color is **75.4101, 60.7202, 102.3534**, and **22.4318, 14.1956, 42.6320** is the 20% darker color. If you saturate the color by 10%, you get **42.5682, 27.2869, 79.3677**, and if you desaturate by 10%, it is **51.7867, 40.7826, 81.4868**.

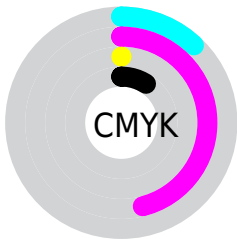
Distribution



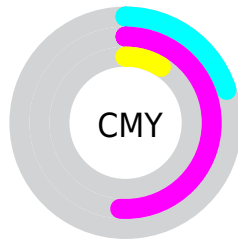
- Red (80%)
- Green (49%)
- Blue (91%)



- Red (80%)
- Yellow (49%)
- Blue (91%)



- Cyan (12%)
- Magenta (46%)
- Yellow (0%)
- Black (9%)





- Cyan (20%)
- Magenta (51%)
- Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.8009, 33.3308, 80.3107 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 46.8009, 33.3308, 80.3107 by changing the saturation by 10% instead.


 46.8009, 33.3308,
80.3107


 46.8009, 33.3308,
80.3107

364.6814,
317.1377, 515.7136


 33.0856, 22.3800,
59.4464


 84.6369, 64.8916,
135.6178

 22.3516, 14.1364,
42.5502


 109.4883, 86.2705,
170.8977

 14.2335, 8.2156,
29.2036


 138.7824,
111.8941, 211.8199

 8.3660, 4.2332,
18.9880

172.8846,
142.1469, 258.8028

 4.3838, 1.8048,
11.4849

212.1603,
177.4132, 312.2652

 1.9215, 0.4902,
6.2757

256.9747,

 0.5893, 0.0000,

218.0775, 372.6254

2.9420

307.6933,
264.5242, 440.3020

■ 0.0000, 0.0000,
1.0651

■ 0.0000, 0.0000,
0.0000

■ 46.8009, 33.3308,
80.3107

■ 46.8009, 33.3308,
80.3107

■ 42.5682, 27.2869,
79.3677

■ 51.7867, 40.7826,
81.4868

■ 39.0359, 22.5495,
78.6395


■ 57.5664, 49.7260,
82.9084


■ 36.1495, 19.0098,
78.1084


■ 64.1822, 60.2430,
84.5897


■ 33.8444, 16.5398,
77.7531


■ 71.6720, 72.4085,
86.5431


 32.0403, 14.9799,
77.5471


 80.0712, 86.2925,
88.7803

 31.4236, 14.5168,
77.4902

 86.4062, 95.9465,
90.3098

 88.5068, 97.0294,
90.4082

 90.6771, 98.1482,
90.5097

 91.5656, 98.6062,
90.5513

Harmonies

Analogous

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



37.6965, 33.3308, 107.5018



46.8009, 33.3308, 80.3107



52.1740, 33.3308, 46.8542

Triad

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



46.8009, 33.3308, 80.3107



35.1804, 33.3308, 5.9619



17.8234, 33.3308, 55.0777

Complementary

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



46.8009, 33.3308, 80.3107



45.6962, 65.9670, 29.7280

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.



17.4081, 33.3308, 27.4491



46.8009, 33.3308, 80.3107



26.3402, 33.3308, 6.5053

Square

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



46.8009, 33.3308, 80.3107



44.6577, 33.3308, 10.0923



20.2268, 33.3308, 12.2815



21.4968, 33.3308, 88.7521

Rectangle

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



46.8009, 33.3308, 80.3107



52.3397, 33.3308, 29.0804



20.2268, 33.3308, 12.2815



17.3286, 33.3308, 44.6060

Sweetspot

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



46.8021, 33.3322, 80.3114



81.3460, 77.5708, 105.2930



34.5029, 33.1451, 80.9236



17.0012, 15.9424, 22.4311



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.



46.8021, 33.3322, 80.3114



53.1553, 34.3762, 98.4414



51.8798, 36.3309, 63.3320



14.6078, 14.4155, 18.1569



17.5691, 8.1231, 43.0251



1.3842, 0.6445, 3.1834

Inverse Universe

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



46.3631, 34.1243, 34.2814



52.9649, 35.7136, 33.5722



42.8175, 64.2749, 38.9912



14.5310, 14.4296, 15.7309



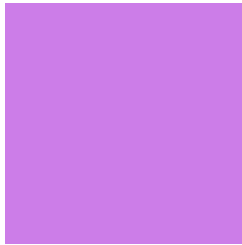
18.9823, 9.7271, 3.5358



1.4401, 0.7338, 0.4583

Previews

White Background



This preview shows how the XYZ color 46.8009, 33.3308, 80.3107 looks on a white background.

Color Contrast Check

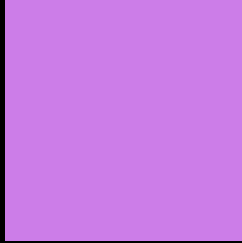
Large Text (above 18pt) WCAG AA × Fail

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 46.8009, 33.3308, 80.3107 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 ✓ Pass

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

XYZ 46.8009, 33.3308, 80.3107

Background



This preview shows how black text looks on a background with the XYZ color 46.8009, 33.3308, 80.3107.



This preview shows how white text looks on a background with the XYZ color 46.8009, 33.3308,

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

46.8009, 33.3308, 80.3107

Protanopia

36.6437, 33.7155, 99.1841

Deuteranopia

34.5021, 33.6008, 76.6187



Tritanopia

37.6475, 33.3155, 35.0181

Trichromacy



Original Color

46.8009, 33.3308, 80.3107



Protanomaly

38.8237, 32.6562, 92.2527



Deuteranomaly

37.6872, 32.6159, 77.7080



Tritanomaly

40.2736, 32.8560, 48.4752

Monochromacy



Original Color

46.8009, 33.3308, 80.3107



Achromatopsia

33.8758, 35.6400, 38.8120



Achromatomaly

37.6910, 34.1148, 51.6120

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.8009, 33.3308, 80.3107 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, 125, 232)` looks like.

```
.text, #text, p{  
    color:rgb(204, 125, 232)  
}
```

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, 125, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 125, 232) }
```

Border

The CSS property to change the border of an element to XYZ 46.8009, 33.3308, 80.3107 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, 125, 232) }
```


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

```
.border{ border-color:rgb(204, 125, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 125, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 125, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 125, 232);  
box-shadow:4px 4px 4px 4px rgb(204, 125,  
232) }
```

Background

The CSS property to change the background color of an element to XYZ 46.8009, 33.3308, 80.3107 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 125, 232) }
```

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

```
.background{ background-color: rgb(204,  
125, 232) }
```

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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