

# Converting Colors

XYZ(48.9389, 36.6319, 80.2790)

Have a look what the booklet for  
XYZ(48.9389, 36.6319, 80.2790)  
contains.

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# Color

**XYZ(48.9601, 36.6432,  
80.0937)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CF88E7
RGB	207, 136, 231
RGB Percent	81%, 53%, 91%
CMY	0.1882, 0.4667, 0.0941
CMYK	0.10, 0.41, 0.00, 0.09
HSL	285°, 66%, 72%
HSV	285°, 41%, 91%
XYZ	48.9601, 36.6432, 80.0937
YIQ	168.0590, 11.8210, 44.5970

# Conversions

## Conversions Part 2

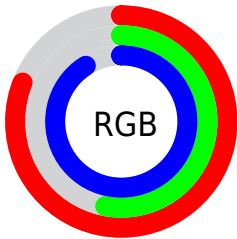
Format	Color
<a href="#">RYB</a>	<a href="#">207, 136, 231</a>
Decimal	<a href="#">13600999</a>
CIELab	<a href="#">67.01, 43.01, -37.42</a>
CIELCh	<a href="#">67, 57.015, 318.976</a>
Yxy	<a href="#">36.6432, 0.2955, 0.2211</a>
Android (android.graphics.Color)	<a href="#">4291791079</a> ( <a href="#">0xFFCF88E7</a> )
YUV	<a href="#">168.0590, 31.0299, 34.1513</a>
Hunter-Lab	<a href="#">60.5336, 38.4384, -36.0747</a>

# Details

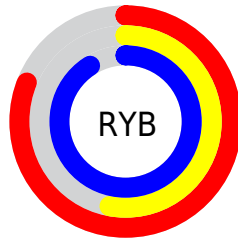
The XYZ color **48.9601, 36.6432, 80.0937** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **47.5181, 66.4038, 33.6068**, and the grayscale version is **37.0979, 39.0299, 42.5036**.

A 20% lighter version of the original color is **77.9208, 65.7416, 103.1903**, and **23.6707, 16.0151, 42.4011** is the 20% darker color. If you saturate the color by 10%, you get **44.4505, 29.9990, 79.0495**, and if you desaturate by 10%, it is **54.2335, 44.7236, 81.3760**.

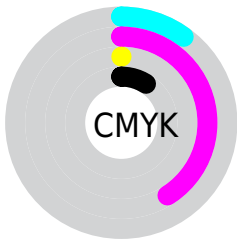
# Distribution



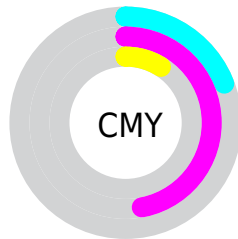
- Red (81%)
- Green (53%)
- Blue (91%)



- Red (81%)
- Yellow (53%)
- Blue (91%)



- Cyan (10%)
- Magenta (41%)
- Yellow (0%)
- Black (9%)




- Cyan (19%)
- Magenta (47%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9601, 36.6432, 80.0937 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 48.9601, 36.6432, 80.0937 by changing the saturation by 10% instead.





 48.9601, 36.6432,  
80.0937


 48.9601, 36.6432,  
80.0937


373.1048,  
331.7632, 514.9636


 34.8022, 24.9314,  
59.2688


 87.8333, 70.0237,  
135.3101

 23.6764, 16.0259,  
42.4081


 113.2793, 92.4611,  
170.5386

 15.2172, 9.5425,  
29.0931


 143.2187,  
119.2425, 211.4055

 9.0592, 5.0967,  
18.9050

178.0169,  
150.7523, 258.3293

 4.8373, 2.3041,  
11.4256

218.0393,  
187.3749, 311.7284

 2.1859, 0.7759,  
6.2361

263.6512,

 0.7353, 0.0000,

229.4946, 372.0215

2.9181

315.2179,  
277.4959, 439.6271

■ 0.0000, 0.0000,  
1.0529

■ 0.0000, 0.0000,  
0.0000

■ 48.9601, 36.6432,  
80.0937

■ 48.9601, 36.6432,  
80.0937

■ 44.4505, 29.9990,  
79.0495

■ 54.2335, 44.7236,  
81.3760

■ 40.6548, 24.6951,  
78.2258


■ 60.3090, 54.3187,  
82.9078


■ 37.5228, 20.6310,  
77.6064


■ 67.2267, 65.5068,  
84.7027


■ 34.9955, 17.6899,  
77.1719


■ 75.0227, 78.3593,  
86.7726


 33.0027, 15.7320,  
76.8990


 83.7310, 92.9434,  
89.1287

 31.5788, 14.6132,  
76.7582

 86.8075, 96.1697,  
89.5893

 88.8429, 97.2190,  
89.6845

 90.9428, 98.3015,  
89.7828

 91.4239, 98.5496,  
89.8053

# Harmonies

## Analogous

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



40.5278, 36.6432, 104.1111



48.9601, 36.6432, 80.0937



53.8602, 36.6432, 49.7283

# Triad

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



48.9601, 36.6432, 80.0937



38.1099, 36.6432, 9.0105



21.3368, 36.6432, 57.4992

# Complementary

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



48.9601, 36.6432, 80.0937



47.5181, 66.4038, 33.6068

# 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.



20.9086, 36.6432, 31.4573



48.9601, 36.6432, 80.0937



29.6898, 36.6432, 9.6602

# Square

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



48.9601, 36.6432, 80.0937



46.9396, 36.6432, 13.6528



23.7167, 36.6432, 16.0707



25.0030, 36.6432, 87.7679



# Rectangle

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



48.9601, 36.6432, 80.0937



53.9985, 36.6432, 32.9112



23.7167, 36.6432, 16.0707



20.8352, 36.6432, 47.8101

# Sweetspot

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



48.9614, 36.6448, 80.0945



83.2662, 80.5698, 105.7707



37.3817, 36.6117, 80.6984



17.5687, 16.8321, 22.5729



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.



48.9614, 36.6448, 80.0945



56.6047, 38.9556, 99.1435



53.2482, 39.1938, 64.9732



14.6209, 14.4223, 18.1575



17.8233, 8.2541, 43.0370



1.4012, 0.6533, 3.1842



# Inverse Universe

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



48.1054, 37.1367, 37.8917



55.7168, 39.8336, 38.7557



44.9164, 64.8613, 42.5767



14.5256, 14.4274, 15.7023



18.9505, 9.7144, 3.3684



1.4371, 0.7326, 0.4425



# Previews

## White Background



This preview shows how the XYZ color 48.9601, 36.6432, 80.0937 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

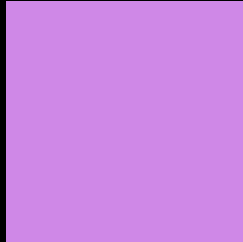
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9601, 36.6432, 80.0937 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

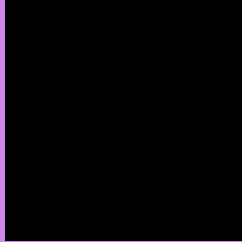
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.9601, 36.6432, 80.0937**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9601, 36.6432, 80.0937.



This preview shows how white text looks on a background with the XYZ color 48.9601, 36.6432,



# 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

48.9601, 36.6432, 80.0937

### Protanopia

39.3435, 36.9319, 96.3217

### Deuteranopia

37.8000, 36.8204, 77.0663



## Tritanopia

40.7034, 36.6479, 39.5788

# Trichromacy



## Original Color

48.9601, 36.6432, 80.0937



## Protanomaly

41.6938, 36.0358, 90.3461



## Deuteranomaly

40.9577, 36.1649, 78.2206



## Tritanomaly

43.4434, 36.6061, 52.3529

# Monochromacy



## Original Color

48.9601, 36.6432, 80.0937



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

40.5838, 37.4836, 54.3863

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9601, 36.6432, 80.0937 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(207, 136, 231)` looks like.

```
.text, #text, p{  
    color:rgb(207, 136, 231)  
}
```

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(207, 136, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(207, 136, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9601, 36.6432, 80.0937 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(207, 136, 231) }
```



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

```
.border{ border-color:rgb(207, 136, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(207, 136, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(207, 136, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(207, 136, 231);  
box-shadow:4px 4px 4px 4px rgb(207, 136,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9601, 36.6432, 80.0937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(207, 136, 231) }
```

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

```
.background{ background-color: rgb(207,  
136, 231) }
```

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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