

# Converting Colors

XYZ(48.7686, 29.6277, 44.7068)

Have a look what the booklet for  
XYZ(48.7686, 29.6277, 44.7068)  
contains.

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# Color

**XYZ(48.9002, 29.7198,  
44.7541)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F45AB1
RGB	244, 90, 177
RGB Percent	96%, 35%, 69%
CMY	0.0431, 0.6470, 0.3059
CMYK	0.00, 0.63, 0.27, 0.04
HSL	326°, 87%, 65%
HSV	326°, 63%, 96%
XYZ	48.9002, 29.7198, 44.7541
YIQ	145.9640, 63.8570, 59.7050

# Conversions

## Conversions Part 2

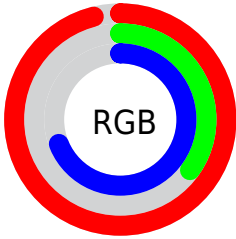
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">244, 90, 177</a>
Decimal	<a href="#">16014001</a>
CIELab	<a href="#">61.41, 66.97, -15.23</a>
CIELCh	<a href="#">61, 68.686, 347.185</a>
Yxy	<a href="#">29.7198, 0.3964, 0.2409</a>
Android (android.graphics.Color)	<a href="#">4294204081 (0xFFFF45AB1)</a>
YUV	<a href="#">145.9640, 15.3007, 85.9776</a>
Hunter-Lab	<a href="#">54.5159, 64.7100, -10.5123</a>

# Details

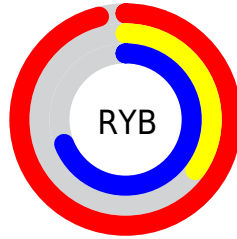
The XYZ color **48.9002, 29.7198, 44.7541** is a light color, and the websafe version is hex **FF66CC**. The color can be described as light muted rose. A complement of this color would be **42.6546, 69.3102, 43.0323**, and the grayscale version is **27.2293, 28.6474, 31.1970**.

A 20% lighter version of the original color is **66.5379, 48.3230, 82.9111**, and **23.6554, 12.1459, 20.1664** is the 20% darker color. If you saturate the color by 10%, you get **46.1520, 25.8513, 38.8188**, and if you desaturate by 10%, it is **52.4077, 34.9746, 51.3491**.

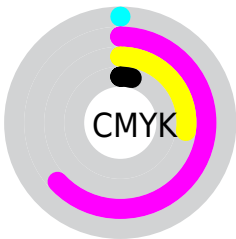
# Distribution



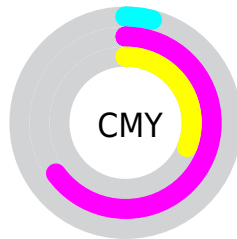
- Red (96%)
- Green (35%)
- Blue (69%)



- Red (96%)
- Yellow (35%)
- Blue (69%)



- Cyan (0%)
- Magenta (63%)
- Yellow (27%)
- Black (4%)




- Cyan (4%)
- Magenta (65%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9002, 29.7198, 44.7541 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 48.9002, 29.7198, 44.7541 by changing the saturation by 10% instead.




 48.9002, 29.7198,  
44.7541


 48.9002, 29.7198,  
44.7541


372.8728,  
300.5962, 381.9078


 34.7545, 19.6260,  
30.9222


 87.7448, 59.2188,  
83.6658


 23.6395, 12.1235,  
20.2817


 113.1745, 79.3927,  
109.5828

 15.1897, 6.8278,  
12.4139


 143.0962,  
103.6956, 140.3652

 9.0398, 3.3547,  
6.9002

 177.8753,  
132.5116, 176.4316

 4.8245, 1.3196,  
3.3223

217.8771,  
166.2253, 218.2005

 2.1783, 0.1563,  
1.2615

263.4671,

 0.7313, 0.0000,

205.2211, 266.0905

0.0299

315.0105,  
249.8832, 320.5200

■ 0.0000, 0.0000,  
0.0000

■ 48.9002, 29.7198,  
44.7541

■ 48.9002, 29.7198,  
44.7541

■ 46.1520, 25.8513,  
38.8188

■ 52.4077, 34.9746,  
51.3491

■ 44.0896, 23.2260,  
33.5089

■ 56.7332, 41.7311,  
58.6317

■ 42.6284, 21.6772,  
28.7869


■ 61.9326, 50.0978,  
66.6292


■ 41.8841, 21.0634,  
25.8417

■ 68.0556, 60.1718,  
75.3667

■ 75.1484, 72.0424,  
84.8676

 83.2537, 85.7927,  
95.1540

 90.5304, 97.7380,  
105.6200

 91.1183, 97.9731,  
108.7160

# Harmonies

## Analogous

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



43.0735, 29.7198, 79.5739



48.9002, 29.7198, 44.7541



48.4056, 29.7198, 19.7297

# Triad

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



48.9002, 29.7198, 44.7541



23.4009, 29.7198, 4.2511



17.9733, 29.7198, 84.5826

# Complementary

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



48.9002, 29.7198, 44.7541



42.6546, 69.3102, 43.0323

# 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.



14.6448, 29.7198, 49.4786



48.9002, 29.7198, 44.7541



17.2865, 29.7198, 8.8969

# Square

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



48.9002, 29.7198, 44.7541



32.2964, 29.7198, 4.0014



14.4238, 29.7198, 22.4953



24.5525, 29.7198, 109.6086



# Rectangle

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



48.9002, 29.7198, 44.7541



44.5493, 29.7198, 10.5829



14.4238, 29.7198, 22.4953



16.5047, 29.7198, 72.9197

# Sweetspot

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



48.9011, 29.7213, 44.7546



78.2837, 71.6038, 87.4766



33.8398, 20.9873, 87.8555



16.2908, 14.5505, 18.0916



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.



48.9011, 29.7213, 44.7546



50.2396, 27.5470, 41.0375



43.2788, 27.4724, 15.1482



16.8913, 16.6394, 19.1741



22.8441, 11.4811, 14.4194



2.0593, 1.0297, 1.5388



# Inverse Universe

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



48.9011, 29.7213, 44.7546



50.2396, 27.5470, 41.0375



51.3812, 72.8009, 88.9857



16.8913, 16.6394, 19.1741



22.8441, 11.4811, 14.4194



2.0593, 1.0297, 1.5388



# Previews

## White Background



This preview shows how the XYZ color 48.9002, 29.7198, 44.7541 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

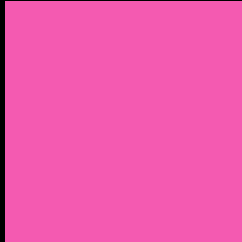
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9002, 29.7198, 44.7541 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 48.9002, 29.7198, 44.7541**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9002, 29.7198, 44.7541.



This preview shows how white text looks on a background with the XYZ color 48.9002, 29.7198,



# 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

48.9002, 29.7198, 44.7541

### Protanopia

31.2607, 29.9275, 69.7746

### Deuteranopia

30.6133, 29.9854, 41.7104



## Tritanopia

43.6288, 29.6461, 19.0456

# Trichromacy



## Original Color

48.9002, 29.7198, 44.7541



## Protanomaly

34.2700, 27.5108, 59.3810



## Deuteranomaly

35.2735, 28.2106, 42.6158



## Tritanomaly

45.2767, 29.5927, 26.6182

# Monochromacy



## Original Color

48.9002, 29.7198, 44.7541



## Achromatopsia

27.3213, 28.7441, 31.3023



## Achromatomaly

32.8381, 27.3011, 35.4372

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9002, 29.7198, 44.7541 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(244, 90, 177)` looks like.

```
.text, #text, p{  
    color:rgb(244, 90, 177)  
}
```

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(244, 90, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 90, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9002, 29.7198, 44.7541 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(244, 90, 177) }
```



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

```
.border{ border-color:rgb(244, 90, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 90, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 90, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 90, 177);  
box-shadow:4px 4px 4px 4px rgb(244, 90,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9002, 29.7198, 44.7541 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 90, 177) }
```

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

```
.background{ background-color: rgb(244, 90,  
177) }
```

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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