

# Converting Colors

XYZ(67.0420, 29.1987, 34.4689)

Have a look what the booklet for  
XYZ(67.0420, 29.1987, 34.4689)  
contains.

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# Color

**XYZ(47.4116, 23.7286,  
34.4290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF009E
RGB	255, 0, 158
RGB Percent	100%, 0%, 62%
CMY	0.0000, 0.9998, 0.3804
CMYK	0.00, 1.00, 0.38, 0.00
HSL	323°, 100%, 50%
HSV	323°, 100%, 100%
XYZ	47.4116, 23.7286, 34.4290
YIQ	94.2570, 101.2620, 103.1980

# Conversions

## Conversions Part 2

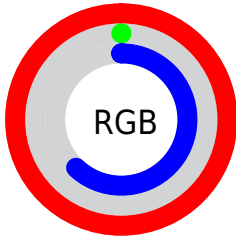
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 158
Decimal	16711838
CIELab	55.82, 86.99, -12.44
CIELCh	56, 87.875, 351.864
Yxy	23.7286, 0.4491, 0.2248
Android (android.graphics.Color)	4294901918 (0xFFFF009E)
YUV	94.2570, 31.4253, 140.9716
Hunter-Lab	48.7120, 88.4888, -7.8070

# Details

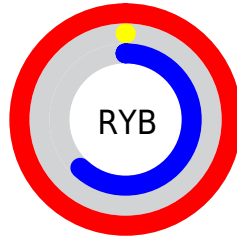
The XYZ color **47.4116, 23.7286, 34.4290** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **37.9212, 72.3846, 23.2967**, and the grayscale version is **10.6192, 11.1722, 12.1665**.

A 20% lighter version of the original color is **57.9039, 35.3715, 66.7263**, and **24.3921, 12.2680, 14.9923** is the 20% darker color. If you saturate the color by 10%, you get **47.4096, 23.7279, 34.4189**, and if you desaturate by 10%, it is **48.6399, 24.7955, 39.1231**.

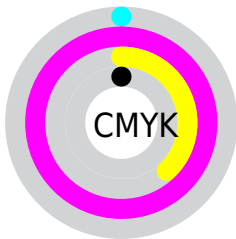
# Distribution



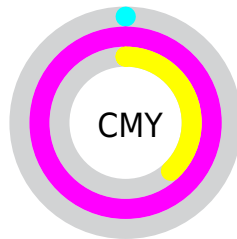
- Red (100%)
- Green (0%)
- Blue (62%)



- Red (100%)
- Yellow (0%)
- Blue (62%)



- Cyan (0%)
- Magenta (100%)
- Yellow (38%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4116, 23.7286, 34.4290 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 47.4116, 23.7286, 34.4290 by changing the saturation by 10% instead.




 47.4116, 23.7286,  
34.4290


 47.4116, 23.7286,  
34.4290


367.0766,  
271.4455, 336.8681


 33.5705, 15.1324,  
22.9433


 85.5427, 49.5870,  
67.7417


 22.7251, 8.9124,  
14.3468


 110.5634, 67.6179,  
90.4059


 14.5103, 4.6841,  
8.2207


 140.0413, 89.5626,  
117.6333

 8.5605, 2.0631,  
4.1467

 174.3418,  
115.8054, 149.8425

 4.5104, 0.6438,  
1.7062

 213.8302,  
146.7307, 187.4521

 1.9948, 0.0000,  
0.3650

258.8719,

 0.6310, 0.0000,

182.7228, 230.8805

0.0000

309.8322,  
224.1663, 280.5463

■ 0.0000, 0.0000,  
0.0000

■ 47.4116, 23.7286,  
34.4290

■ 47.4116, 23.7286,  
34.4290

■ 47.4096, 23.7279,  
34.4189

■ 48.6399, 24.7955,  
39.1231

■ 50.4027, 26.8234,  
44.3278

■ 52.8443, 30.0988,  
50.0983

■ 56.0534, 34.7970,  
56.4710

■ 60.1047, 41.0649,  
63.4773

■ 65.0633, 49.0309,  
71.1455

■ 70.9879, 58.8104,  
79.5012

■ 77.9320, 70.5081,  
88.5684

■ 85.9448, 84.2210,  
98.3694

# Harmonies

## Analogous

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



41.2855, 23.7286, 76.8680



47.4116, 23.7286, 34.4290



45.4881, 23.7286, 10.2879

# Triad

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



47.4116, 23.7286, 34.4290



16.1298, 23.7286, 1.0276



12.6500, 23.7286, 97.7509

# Complementary

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



47.4116, 23.7286, 34.4290



37.9212, 72.3846, 23.2967

# 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.



9.0115, 23.7286, 52.2140



47.4116, 23.7286, 34.4290



10.5679, 23.7286, 4.5797

# Square

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



47.4116, 23.7286, 34.4290



25.3821, 23.7286, 0.6461



8.3820, 23.7286, 18.8075



19.9429, 23.7286, 127.5099



# Rectangle

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



47.4116, 23.7286, 34.4290



40.0949, 23.7286, 3.7678



8.3820, 23.7286, 18.8075



11.0600, 23.7286, 82.6809

# Sweetspot

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



47.4122, 23.7299, 34.4294



70.9729, 58.7853, 79.4808



22.6195, 9.5766, 95.2640



14.6307, 11.6515, 16.2400



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.



47.4122, 23.7299, 34.4294



47.4096, 23.7279, 34.4189



41.5301, 21.3771, 3.4546



18.4825, 18.1763, 21.1581



24.8476, 12.4283, 18.3798



2.4726, 1.2314, 2.0701



# Inverse Universe

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



47.4122, 23.7299, 34.4294



47.4096, 23.7279, 34.4189



48.8130, 76.7413, 80.6520



18.4825, 18.1763, 21.1581



24.8476, 12.4283, 18.3798



2.4726, 1.2314, 2.0701



# Previews

## White Background



This preview shows how the XYZ color 47.4116, 23.7286, 34.4290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

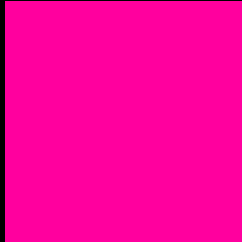
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4116, 23.7286, 34.4290 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 47.4116, 23.7286, 34.4290**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4116, 23.7286, 34.4290.



This preview shows how white text looks on a background with the XYZ color 47.4116, 23.7286,

34.4290.

# 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

47.4116, 23.7286, 34.4290

### Protanopia

26.8026, 24.4803, 75.2640

### Deuteranopia

24.7105, 24.1788, 30.9684



## Tritanopia

41.7150, 23.9552, 7.2757

# Trichromacy



## Original Color

47.4116, 23.7286, 34.4290



## Protanomaly

27.0394, 17.4277, 57.1971



## Deuteranomaly

28.4463, 18.6112, 31.3712



## Tritanomaly

42.7138, 22.8421, 13.7130

# Monochromacy



## Original Color

47.4116, 23.7286, 34.4290



## Achromatopsia

10.6392, 11.1932, 12.1894



## Achromatomaly

17.9636, 11.2884, 18.0617

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4116, 23.7286, 34.4290 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(255, 0, 158)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 158)  
}
```

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(255, 0, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4116, 23.7286, 34.4290 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(255, 0, 158) }
```



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

```
.border{ border-color:rgb(255, 0, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 158);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4116, 23.7286, 34.4290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 158) }
```

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

```
.background{ background-color: rgb(255, 0,  
158) }
```

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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