

# Converting Colors

XYZ(67.2411, 33.0399, 35.6424)

Have a look what the booklet for  
XYZ(67.2411, 33.0399, 35.6424)  
contains.

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# Color

**XYZ(47.4980, 23.7632,  
34.8842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF009F
RGB	255, 0, 159
RGB Percent	100%, 0%, 62%
CMY	0.0000, 0.9998, 0.3765
CMYK	0.00, 1.00, 0.38, 0.00
HSL	323°, 100%, 50%
HSV	323°, 100%, 100%
XYZ	47.4980, 23.7632, 34.8842
YIQ	94.3710, 100.9410, 103.5090

# Conversions

## Conversions Part 2

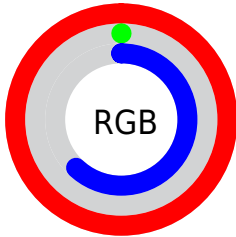
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 159
Decimal	16711839
CIE <sub>Lab</sub>	55.85, 87.08, -12.97
CIE <sub>LCh</sub>	56, 88.042, 351.526
Yxy	23.7632, 0.4475, 0.2239
Android (android.graphics.Color)	4294901919 (0xFFFF009F)
YUV	94.3710, 31.8621, 140.8716
Hunter-Lab	48.7475, 88.6165, -8.3052

# Details

The XYZ color **47.4980, 23.7632, 34.8842** 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 **37.8749, 72.3660, 23.0531**, and the grayscale version is **10.6455, 11.1999, 12.1967**.

A 20% lighter version of the original color is **58.0313, 35.4224, 67.3969**, and **24.4450, 12.2892, 15.2710** is the 20% darker color. If you saturate the color by 10%, you get **47.4960, 23.7624, 34.8736**, and if you desaturate by 10%, it is **48.7239, 24.8292, 39.5653**.

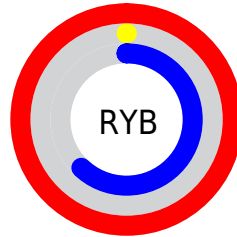
# Distribution



Red (100%)

Green (0%)

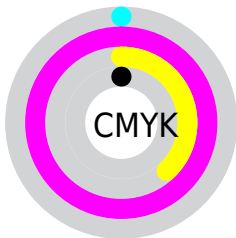
Blue (62%)



Red (100%)

Yellow (0%)

Blue (62%)

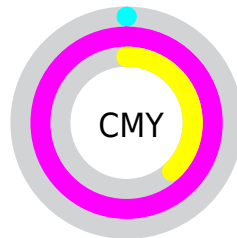


Cyan (0%)

Magenta (100%)

Yellow (38%)

Black (0%)



Cyan (0%)

Magenta (100%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4980, 23.7632, 34.8842 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 47.4980, 23.7632, 34.8842 by changing the saturation by 10% instead.





 47.4980, 23.7632,  
34.8842


 47.4980, 23.7632,  
34.8842


367.4146,  
271.6211, 338.9456


 33.6391, 15.1581,  
23.2908


 85.6707, 49.6435,  
68.4559

 22.7781, 8.9304,  
14.6011


 110.7153, 67.6874,  
91.2713


 14.5495, 4.6958,  
8.3964


 140.2191, 89.6464,  
118.6644

 8.5881, 2.0699,  
4.2582

 174.5475,  
115.9049, 151.0539

 4.5284, 0.6476,  
1.7681

 214.0660,  
146.8472, 188.8582

 2.0052, 0.0000,  
0.4068

259.1397,

 0.6369, 0.0000,

182.8577, 232.4959

0.0000

310.1342,  
224.3209, 282.3855

■ 0.0000, 0.0000,  
0.0000

■ 47.4980, 23.7632,  
34.8842

■ 47.4980, 23.7632,  
34.8842

■ 47.4960, 23.7624,  
34.8736

■ 48.7239, 24.8292,  
39.5653

■ 50.4830, 26.8557,  
44.7504

■ 52.9197, 30.1292,  
50.4944

■ 56.1225, 34.8250,  
56.8336

■ 60.1661, 41.0900,  
63.7991

65.1157, 49.0526,  
71.4190

71.0297, 58.8279,  
79.7186

77.9617, 70.5210,  
88.7218

85.9610, 84.2286,  
98.4508

# Harmonies

## Analogous

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



41.2724, 23.7632, 77.6098



47.4980, 23.7632, 34.8842



45.6619, 23.7632, 10.4516

# Triad

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



47.4980, 23.7632, 34.8842



16.2298, 23.7632, 1.0068



12.5965, 23.7632, 97.5527

# Complementary

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



47.4980, 23.7632, 34.8842



37.8749, 72.3660, 23.0531

# 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.



8.9881, 23.7632, 51.8543



47.4980, 23.7632, 34.8842



10.6129, 23.7632, 4.4912

# Square

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



47.4980, 23.7632, 34.8842



25.5452, 23.7632, 0.6440



8.3888, 23.7632, 18.5666



19.8650, 23.7632, 127.7831



# Rectangle

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



47.4980, 23.7632, 34.8842



40.2942, 23.7632, 3.8264



8.3888, 23.7632, 18.5666



11.0166, 23.7632, 82.3872

# Sweetspot

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



47.4987, 23.7646, 34.8846



71.0140, 58.8017, 79.6975



22.6197, 9.5768, 95.2640



14.6405, 11.6554, 16.2916



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.



47.4987, 23.7646, 34.8846



47.4960, 23.7624, 34.8736



41.5302, 21.3772, 3.4548



18.4856, 18.1776, 21.1745



24.8926, 12.4463, 18.6165



2.4768, 1.2331, 2.0922



# Inverse Universe

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



47.4987, 23.7646, 34.8846



47.4960, 23.7624, 34.8736



48.8130, 76.7413, 80.6522



18.4856, 18.1776, 21.1745



24.8926, 12.4463, 18.6165



2.4768, 1.2331, 2.0922



# Previews

## White Background



This preview shows how the XYZ color 47.4980, 23.7632, 34.8842 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

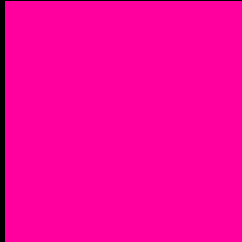
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4980, 23.7632, 34.8842 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 47.4980, 23.7632, 34.8842**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4980, 23.7632, 34.8842.



This preview shows how white text looks on a background with the XYZ color 47.4980, 23.7632,



# 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

47.4980, 23.7632, 34.8842

### Protanopia

26.9742, 24.5369, 76.7132

### Deuteranopia

24.6169, 24.1215, 31.3754



## Tritanopia

41.7986, 24.0764, 7.4452

# Trichromacy



## Original Color

47.4980, 23.7632, 34.8842



## Protanomaly

27.0867, 17.4247, 58.4356



## Deuteranomaly

28.2892, 18.5208, 31.7896



## Tritanomaly

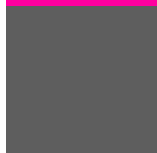
42.7946, 22.9277, 13.9743

# Monochromacy



## Original Color

47.4980, 23.7632, 34.8842



## Achromatopsia

10.6392, 11.1932, 12.1894



## Achromatomaly

18.0227, 11.3120, 18.3731

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4980, 23.7632, 34.8842 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, 159)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 159)  
}
```

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, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 159) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4980, 23.7632, 34.8842 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, 159) }
```



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

```
.border{ border-color:rgb(255, 0, 159) }
```

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, 159) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 159);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
159) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4980, 23.7632, 34.8842 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, 159) }
```

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

```
.background{ background-color: rgb(255, 0,  
159) }
```

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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