

# Converting Colors

XYZ(47.6539, 23.9124, 34.8072)

Have a look what the booklet for  
XYZ(47.6539, 23.9124, 34.8072)  
contains.

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# Color

**XYZ(47.5414, 23.8500,  
34.8987)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF049F
RGB	255, 4, 159
RGB Percent	100%, 2%, 62%
CMY	0.0000, 0.9841, 0.3765
CMYK	0.00, 0.98, 0.38, 0.00
HSL	323°, 100%, 51%
HSV	323°, 98%, 100%
XYZ	47.5414, 23.8500, 34.8987
YIQ	96.7190, 99.8410, 101.4170

# Conversions

## Conversions Part 2

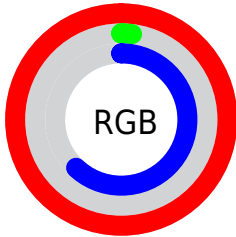
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 4, 159
Decimal	16712863
CIELab	55.94, 86.83, -12.84
CIELCh	56, 87.770, 351.587
Yxy	23.8500, 0.4473, 0.2244
Android (android.graphics.Color)	4294902943 (0xFFFF049F)
YUV	96.7190, 30.7045, 138.8124
Hunter-Lab	48.8365, 88.3027, -8.1833

# Details

The XYZ color **47.5414, 23.8500, 34.8987** 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 **38.1140, 72.4674, 24.0508**, and the grayscale version is **11.2119, 11.7958, 12.8456**.

A 20% lighter version of the original color is **58.1290, 35.6178, 67.4295**, and **24.4450, 12.2892, 15.2710** is the 20% darker color. If you saturate the color by 10%, you get **47.3640, 23.7096, 34.1787**, and if you desaturate by 10%, it is **48.8317, 25.0219, 39.6720**.

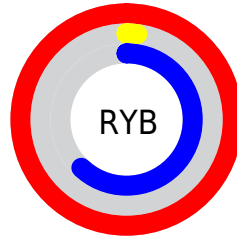
# Distribution



Red (100%)

Green (2%)

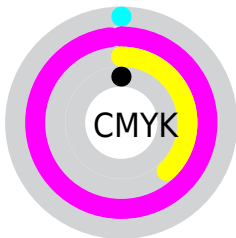
Blue (62%)



Red (100%)

Yellow (2%)

Blue (62%)

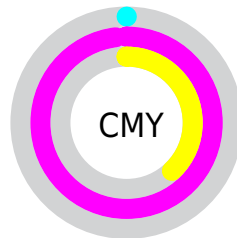


Cyan (0%)

Magenta (98%)

Yellow (38%)

Black (0%)



Cyan (0%)

Magenta (98%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5414, 23.8500, 34.8987 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 47.5414, 23.8500, 34.8987 by changing the saturation by 10% instead.




 47.5414, 23.8500,  
34.8987


 47.5414, 23.8500,  
34.8987


367.5844,  
272.0613, 339.0116

 33.6736, 15.2224,  
23.3019


 85.7350, 49.7853,  
68.4786


 22.8047, 8.9756,  
14.6092


 110.7916, 67.8618,  
91.2988


 14.5692, 4.7253,  
8.4020


 140.3084, 89.8567,  
118.6972

 8.6020, 2.0870,  
4.2618

 174.6509,  
116.1544, 151.0924

 4.5375, 0.6573,  
1.7700

 214.1844,  
147.1393, 188.9029

 2.0105, 0.0000,  
0.4081

259.2742,

 0.6398, 0.0000,

183.1958, 232.5473

0.0000

310.2858,  
224.7084, 282.4440

■ 0.0000, 0.0000,  
0.0000

■ 47.5414, 23.8500,  
34.8987

■ 47.5414, 23.8500,  
34.8987

■ 47.3640, 23.7096,  
34.1787

■ 48.8317, 25.0219,  
39.6720

■ 50.6964, 27.2331,  
44.9735

■ 53.2557, 30.7222,  
50.8507

■ 56.5958, 35.6589,  
57.3391

■ 60.7896, 42.1868,  
64.4696

■ 65.9010, 50.4321,  
72.2702

■ 71.9879, 60.5081,  
80.7664

■ 79.1031, 72.5184,  
89.9819

■ 87.2953, 86.5589,  
99.9391

# Harmonies

## Analogous

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



41.3447, 23.8500, 77.4909



47.5414, 23.8500, 34.8987



45.6931, 23.8500, 10.5080

# Triad

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



47.5414, 23.8500, 34.8987



16.2984, 23.8500, 1.0386



12.6884, 23.8500, 97.5451

# Complementary

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



47.5414, 23.8500, 34.8987



38.1140, 72.4674, 24.0508

# 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.



9.0670, 23.8500, 51.9906



47.5414, 23.8500, 34.8987



10.6835, 23.8500, 4.5682

# Square

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



47.5414, 23.8500, 34.8987



25.6034, 23.8500, 0.6724



8.4605, 23.8500, 18.7088



19.9673, 23.8500, 127.5921



# Rectangle

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



47.5414, 23.8500, 34.8987



40.3301, 23.8500, 3.8725



8.4605, 23.8500, 18.7088



11.1039, 23.8500, 82.4406

# Sweetspot

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



47.5421, 23.8514, 34.8991



70.9511, 58.7765, 79.3658



22.9255, 9.7989, 95.2908



14.6255, 11.6494, 16.2126



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.



47.5421, 23.8514, 34.8991



47.3640, 23.7096, 34.1787



41.6262, 21.4850, 3.7464



18.4809, 18.1757, 21.1494



24.8239, 12.4188, 18.2548



2.4704, 1.2305, 2.0583



# Inverse Universe

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



47.5421, 23.8514, 34.8991



47.3640, 23.7096, 34.1787



48.9342, 76.7955, 81.0294



18.4809, 18.1757, 21.1494



24.8239, 12.4188, 18.2548



2.4704, 1.2305, 2.0583



# Previews

## White Background



This preview shows how the XYZ color 47.5414, 23.8500, 34.8987 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

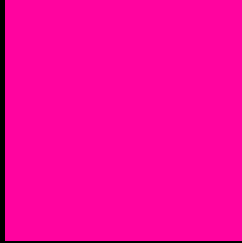
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.5414, 23.8500, 34.8987 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 47.5414, 23.8500, 34.8987**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.5414, 23.8500, 34.8987.



This preview shows how white text looks on a background with the XYZ color 47.5414, 23.8500,



# 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

47.5414, 23.8500, 34.8987

### Protanopia

26.9742, 24.5369, 76.7132

### Deuteranopia

24.6169, 24.1215, 31.3754



## Tritanopia

41.7986, 24.0764, 7.4452

# Trichromacy



## Original Color

47.5414, 23.8500, 34.8987



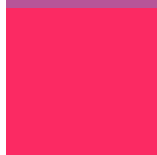
## Protanomaly

27.1649, 17.5811, 58.4617



## Deuteranomaly

28.4444, 18.8313, 31.8414



## Tritanomaly

42.8638, 23.0660, 13.9974

# Monochromacy



## Original Color

47.5414, 23.8500, 34.8987



## Achromatopsia

11.3621, 11.9538, 13.0177



## Achromatomaly

18.4941, 11.7811, 19.0685

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5414, 23.8500, 34.8987 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, 4, 159)` looks like.

```
.text, #text, p{  
    color:rgb(255, 4, 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, 4, 159) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 47.5414, 23.8500, 34.8987 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, 4, 159) }
```



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

```
.border{ border-color:rgb(255, 4, 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, 4, 159)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 47.5414, 23.8500, 34.8987 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 4, 159) }
```

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

```
.background{ background-color: rgb(255, 4,  
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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