

# Converting Colors

XYZ(48.9803, 25.2831, 39.8300)

Have a look what the booklet for  
XYZ(48.9803, 25.2831, 39.8300)  
contains.

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# Color

**XYZ(48.9735, 25.2686,  
39.8323)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF22A9
RGB	255, 34, 169
RGB Percent	100%, 13%, 66%
CMY	0.0000, 0.8666, 0.3373
CMYK	0.00, 0.87, 0.34, 0.00
HSL	323°, 100%, 57%
HSV	323°, 87%, 100%
XYZ	48.9735, 25.2686, 39.8323
YIQ	115.4690, 88.3810, 88.8370

# Conversions

## Conversions Part 2

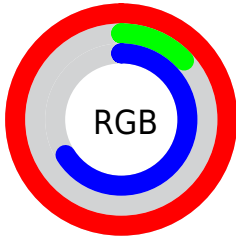
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	255, 34, 169
Decimal	16720553
CIE Lab	57.34, 84.74, -16.60
CIE LCh	57, 86.352, 348.918
Yxy	25.2686, 0.4293, 0.2215
Android (android.graphics.Color)	4294910633 (0xFFFF22A9)
YUV	115.4690, 26.3908, 122.3687
Hunter-Lab	50.2679, 85.9349, -11.7939

# Details

The XYZ color **48.9735, 25.2686, 39.8323** is a light color, and the websafe version is hex **FF0099**. The color can be described as light washed rose. A complement of this color would be **39.8120, 73.2171, 29.8104**, and the grayscale version is **16.3451, 17.1963, 18.7268**.

A 20% lighter version of the original color is **60.3790, 38.0107, 74.6755**, and **25.2032, 12.6218, 17.9375** is the 20% darker color. If you saturate the color by 10%, you get **47.5972, 23.9509, 34.9500**, and if you desaturate by 10%, it is **50.9600, 27.6936, 45.2673**.

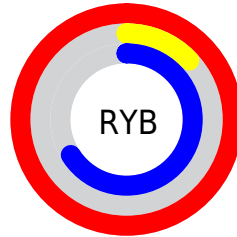
# Distribution



Red (100%)

Green (13%)

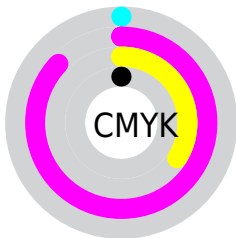
Blue (66%)



Red (100%)

Yellow (13%)

Blue (66%)

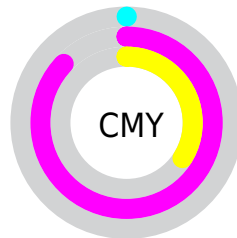


Cyan (0%)

Magenta (87%)

Yellow (34%)

Black (0%)



Cyan (0%)

Magenta (87%)

Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9735, 25.2686, 39.8323 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 48.9735, 25.2686, 39.8323 by changing the saturation by 10% instead.




 48.9735, 25.2686,  
39.8323


 48.9735, 25.2686,  
39.8323


373.1567,  
279.1730, 360.9473


 34.8129, 16.2773,  
27.0950


 87.8531, 52.0926,  
76.1424


 23.6846, 9.7206,  
17.4115


 113.3027, 70.6941,  
100.5522

 15.2233, 5.2141,  
10.3633


 143.2461, 93.2678,  
129.6901

 9.0636, 2.3734,  
5.5317

 178.0486,  
120.1981, 163.9744

 4.8401, 0.8122,  
2.4984

 218.0756,  
151.8694, 203.8237

 2.1876, 0.0000,  
0.8393

263.6923,

 0.7362, 0.0000,

188.6660, 249.6566

0.0000

315.2642,  
230.9724, 301.8916

■ 0.0000, 0.0000,  
0.0000

■ 48.9735, 25.2686,  
39.8323

■ 48.9735, 25.2686,  
39.8323

■ 47.5972, 23.9509,  
34.9500

■ 50.9600, 27.6936,  
45.2673

■ 47.2204, 23.6522,  
33.4224

■ 53.6592, 31.4281,  
51.2961

■ 57.1549, 36.6380,  
57.9540

■ 61.5185, 43.4632,  
65.2717

■ 66.8127, 52.0274,  
73.2772

73.0945, 62.4421,  
81.9959

80.4160, 74.8094,  
91.4518

88.8255, 89.2241,  
101.6672

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



42.1179, 25.2686, 83.6662



48.9735, 25.2686, 39.8323



47.8625, 25.2686, 12.9852

# Triad

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



48.9735, 25.2686, 39.8323



18.1841, 25.2686, 1.2201



13.2659, 25.2686, 95.6292

# Complementary

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



48.9735, 25.2686, 39.8323



39.8120, 73.2171, 29.8104

# 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.



9.7948, 25.2686, 50.1347



48.9735, 25.2686, 39.8323



12.0261, 25.2686, 4.6080

# Square

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



48.9735, 25.2686, 39.8323



28.0023, 25.2686, 0.9869



9.4169, 25.2686, 18.0386



20.4291, 25.2686, 128.1887



# Rectangle

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



48.9735, 25.2686, 39.8323



42.8164, 25.2686, 5.1213



9.4169, 25.2686, 18.0386



11.7274, 25.2686, 80.2907

# Sweetspot

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



48.9742, 25.2700, 39.8327



73.5436, 63.1944, 82.5950



26.1935, 12.2683, 95.5952



15.2459, 12.6983, 17.0111



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.



48.9742, 25.2700, 39.8327



47.2204, 23.6522, 33.4224



42.6231, 22.7295, 6.3885



18.4756, 18.1736, 21.1217



24.7491, 12.3889, 17.8610



2.4633, 1.2277, 2.0214



# Inverse Universe

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



48.9742, 25.2700, 39.8327



47.2204, 23.6522, 33.4224



50.5940, 77.5299, 86.5876



18.4756, 18.1736, 21.1217



24.7491, 12.3889, 17.8610



2.4633, 1.2277, 2.0214



# Previews

## White Background



This preview shows how the XYZ color 48.9735, 25.2686, 39.8323 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

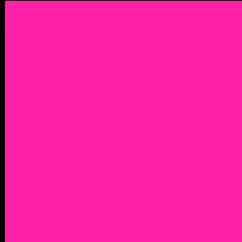
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9735, 25.2686, 39.8323 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 48.9735, 25.2686, 39.8323**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9735, 25.2686, 39.8323.



This preview shows how white text looks on a background with the XYZ color 48.9735, 25.2686,



# 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

48.9735, 25.2686, 39.8323

### Protanopia

28.5236, 25.8170, 82.8367

### Deuteranopia

25.9909, 25.5474, 35.9090



## Tritanopia

42.6888, 25.2963, 9.4702

# Trichromacy



## Original Color

48.9735, 25.2686, 39.8323



## Protanomaly

29.3882, 20.2611, 64.6492



## Deuteranomaly

30.4177, 21.4113, 36.7120



## Tritanomaly

44.1112, 24.6611, 17.1870

# Monochromacy



## Original Color

48.9735, 25.2686, 39.8323



## Achromatopsia

16.2955, 17.1441, 18.6699



## Achromatomaly

23.4268, 16.5118, 24.8740

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9735, 25.2686, 39.8323 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, 34, 169)` looks like.

```
.text, #text, p{  
    color:rgb(255, 34, 169)  
}
```

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, 34, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 34, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9735, 25.2686, 39.8323 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, 34, 169) }
```



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

```
.border{ border-color:rgb(255, 34, 169) }
```

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

Here you see how a box with a 4 pixel rgb(255, 34, 169) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 34, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 34, 169);  
box-shadow:4px 4px 4px 4px rgb(255, 34,  
169) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9735, 25.2686, 39.8323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 34, 169) }
```

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

```
.background{ background-color: rgb(255, 34,  
169) }
```

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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