

# Converting Colors

XYZ(48.4636, 24.1494, 39.9690)

Have a look what the booklet for  
XYZ(48.4636, 24.1494, 39.9690)  
contains.

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# Color

**XYZ(48.4957, 24.1623,  
40.1380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF00AA
RGB	255, 0, 170
RGB Percent	100%, 0%, 67%
CMY	0.0000, 0.9998, 0.3333
CMYK	0.00, 1.00, 0.33, 0.00
HSL	320°, 100%, 50%
HSV	320°, 100%, 100%
XYZ	48.4957, 24.1623, 40.1380
YIQ	95.6250, 97.4100, 106.9300

# Conversions

## Conversions Part 2

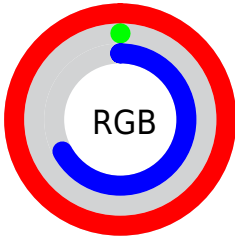
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 0, 170
Decimal	16711850
CIE <sub>Lab</sub>	56.25, 88.12, -18.84
CIE <sub>LCh</sub>	56, 90.107, 347.934
Yxy	24.1623, 0.4299, 0.2142
Android (android.graphics.Color)	4294901930 (0xFFFF00AA)
YUV	95.6250, 36.6669, 139.7719
Hunter-Lab	49.1552, 90.0837, -14.0051

# Details

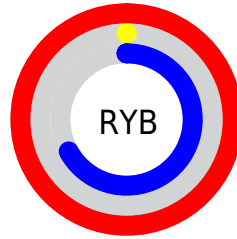
The XYZ color **48.4957, 24.1623, 40.1380** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **37.4029, 72.1773, 20.5675**, and the grayscale version is **10.9338, 11.5033, 12.5270**.

A 20% lighter version of the original color is **59.4843, 36.0036, 75.0484**, and **25.0082, 12.5145, 18.2370** is the 20% darker color. If you saturate the color by 10%, you get **48.4938, 24.1615, 40.1278**, and if you desaturate by 10%, it is **49.6862, 25.2141, 44.6325**.

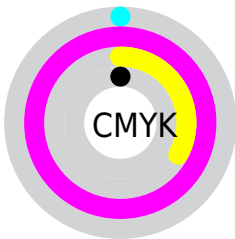
# Distribution



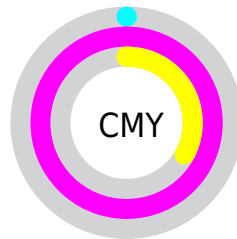
- Red (100%)
- Green (0%)
- Blue (67%)



- Red (100%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (33%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4957, 24.1623, 40.1380 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 48.4957, 24.1623, 40.1380 by changing the saturation by 10% instead.




 48.4957, 24.1623,  
40.1380


 48.4957, 24.1623,  
40.1380

371.3036,  
273.6400, 362.2743


 34.4325, 15.4541,  
27.3316


 87.1472, 50.2949,  
76.6130


 23.3905, 9.1387,  
17.5877


 112.4663, 68.4881,  
101.1186


 15.0044, 4.8317,  
10.4881


 142.2679, 90.6117,  
130.3611

 8.9088, 2.1489,  
5.6139

 176.9176,  
117.0501, 164.7588

 4.7384, 0.6919,  
2.5468

 216.7807,  
148.1878, 204.7305

 2.1278, 0.0000,  
0.8648

262.2225,

 0.7042, 0.0000,

184.4090, 250.6946

0.0000

313.6083,  
226.0983, 303.0697

■ 0.0000, 0.0000,  
0.0000

■ 48.4957, 24.1623,  
40.1380

■ 48.4957, 24.1623,  
40.1380

■ 48.4938, 24.1615,  
40.1278

■ 49.6862, 25.2141,  
44.6325

■ 51.3967, 27.2211,  
49.5615

■ 53.7710, 30.4698,  
54.9777

■ 56.8976, 35.1350,  
60.9150

■ 60.8504, 41.3636,  
67.4024

■ 65.6942, 49.2839,  
74.4657

■ 71.4873, 59.0109,  
82.1285

■ 78.2827, 70.6493,  
90.4125

■ 86.1294, 84.2959,  
99.3380

# Harmonies

## Analogous

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



41.1708, 24.1623, 86.0903



48.4957, 24.1623, 40.1380



47.6315, 24.1623, 12.3538

# Triad

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



48.4957, 24.1623, 40.1380



17.3579, 24.1623, 0.7868



12.0315, 24.1623, 95.5251

# Complementary

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



48.4957, 24.1623, 40.1380



37.4029, 72.1773, 20.5675

# 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.



8.7415, 24.1623, 48.0948



48.4957, 24.1623, 40.1380



11.1178, 24.1623, 3.6012

# Square

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



48.4957, 24.1623, 40.1380



27.3896, 24.1623, 0.6199



8.4670, 24.1623, 16.0882



19.0455, 24.1623, 130.9424



# Rectangle

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



48.4957, 24.1623, 40.1380



42.5492, 24.1623, 4.5053



8.4670, 24.1623, 16.0882



10.5579, 24.1623, 79.3261

# Sweetspot

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



48.4964, 24.1636, 40.1384



71.4720, 58.9849, 82.1091



21.8007, 9.1546, 95.2257



14.7499, 11.6992, 16.8674



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.



48.4964, 24.1636, 40.1384



48.4938, 24.1615, 40.1278



41.6685, 21.4325, 4.1833



18.5201, 18.1913, 21.3559



25.4112, 12.6538, 21.3478



2.5250, 1.2524, 2.3459



# Inverse Universe

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



48.4964, 24.1636, 40.1384



48.4938, 24.1615, 40.1278



47.7089, 76.2997, 74.8382



18.5201, 18.1913, 21.3559



25.4112, 12.6538, 21.3478



2.5250, 1.2524, 2.3459



# Previews

## White Background



This preview shows how the XYZ color 48.4957, 24.1623, 40.1380 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 48.4957, 24.1623, 40.1380 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 48.4957, 24.1623, 40.1380**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4957, 24.1623, 40.1380.



This preview shows how white text looks on a background with the XYZ color 48.4957, 24.1623,

40.1380.

# 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

48.4957, 24.1623, 40.1380

### Protanopia

28.2213, 25.1309, 88.1574

### Deuteranopia

25.2065, 24.7326, 35.7931



## Tritanopia

41.8240, 24.4130, 8.3022

# Trichromacy



## Original Color

48.4957, 24.1623, 40.1380



## Protanomaly

27.4972, 17.5659, 66.9070



## Deuteranomaly

28.8261, 18.9294, 36.3169



## Tritanomaly

43.2491, 23.2776, 15.8492

# Monochromacy



## Original Color

48.4957, 24.1623, 40.1380



## Achromatopsia

11.1181, 11.6971, 12.7381



## Achromatomaly

18.5703, 11.6376, 20.0064

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4957, 24.1623, 40.1380 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, 170)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 170)  
}
```

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, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4957, 24.1623, 40.1380 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, 170) }
```



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

```
.border{ border-color:rgb(255, 0, 170) }
```

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, 170) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 170);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4957, 24.1623, 40.1380 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, 170) }
```

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

```
.background{ background-color: rgb(255, 0,  
170) }
```

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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