

# Converting Colors

XYZ(47.5170, 25.0285, 31.1070)

Have a look what the booklet for  
XYZ(47.5170, 25.0285, 31.1070)  
contains.

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# Color

**XYZ(47.5380, 25.0479,  
31.1834)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF2996
RGB	255, 41, 150
RGB Percent	100%, 16%, 59%
CMY	0.0000, 0.8391, 0.4118
CMYK	0.00, 0.84, 0.41, 0.00
HSL	329°, 100%, 58%
HSV	329°, 84%, 100%
XYZ	47.5380, 25.0479, 31.1834
YIQ	117.4120, 92.5550, 79.2670

# Conversions

## Conversions Part 2

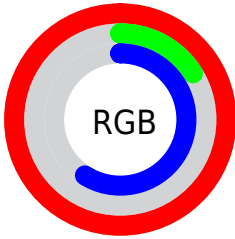
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 41, 150
Decimal	16722326
CIE <sub>Lab</sub>	57.12, 81.71, -5.76
CIE <sub>LCh</sub>	57, 81.912, 355.969
Yxy	25.0479, 0.4581, 0.2414
Android (android.graphics.Color)	4294912406 (0xFFFF2996)
YUV	117.4120, 16.0659, 120.6647
Hunter-Lab	50.0479, 81.9645, -1.9084

# Details

The XYZ color **47.5380, 25.0479, 31.1834** is a dark color, and the websafe version is hex **FF3399**. The color can be described as middle washed rose. A complement of this color would be **41.8651, 74.0678, 39.2924**, and the grayscale version is **16.9710, 17.8548, 19.4439**.

A 20% lighter version of the original color is **58.0442, 37.4299, 61.2922**, and **23.9904, 12.1073, 12.8769** is the 20% darker color. If you saturate the color by 10%, you get **45.9687, 23.4367, 25.9516**, and if you desaturate by 10%, it is **49.7861, 27.8445, 37.1726**.

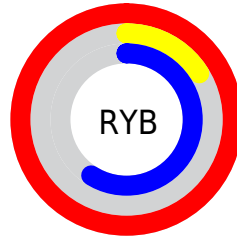
# Distribution



Red (100%)

Green (16%)

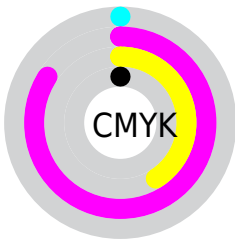
Blue (59%)



Red (100%)

Yellow (16%)

Blue (59%)

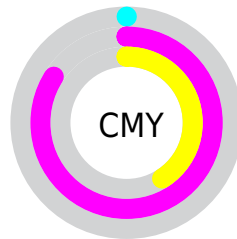


Cyan (0%)

Magenta (84%)

Yellow (41%)

Black (0%)



Cyan (0%)

Magenta (84%)

Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5380, 25.0479, 31.1834 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 47.5380, 25.0479, 31.1834 by changing the saturation by 10% instead.



47.5380, 25.0479,  
31.1834

47.5380, 25.0479,  
31.1834

367.5711,  
278.0764, 321.7597

33.6709, 16.1127,  
20.4789

85.7300, 51.7349,  
62.6117

22.8026, 9.6040,  
12.5561

110.7856, 70.2556,  
84.1725

14.5677, 5.1372,  
6.9965

140.3014, 92.7402,  
110.1892

8.6009, 2.3280,  
3.3815

174.6428,  
119.5732, 141.0803

4.5368, 0.7885,  
1.2926

214.1751,  
151.1389, 177.2644

2.0101, 0.0000,  
0.0557

259.2637,

0.6396, 0.0000,

187.8217, 219.1600

0.0000

310.2739,  
230.0061, 267.1855

■ 0.0000, 0.0000,  
0.0000

■ 47.5380, 25.0479,  
31.1834

■ 47.5380, 25.0479,  
31.1834

■ 45.9687, 23.4367,  
25.9516

■ 49.7861, 27.8445,  
37.1726

■ 45.2606, 22.8683,  
23.1025

■ 52.8094, 32.0140,  
43.9669

■ 56.6896, 37.7152,  
51.6087

■ 61.4969, 45.0837,  
60.1361

■ 67.2940, 54.2399,  
69.5840

■ 74.1376, 65.2933,  
79.9850

■ 82.0800, 78.3441,  
91.3695

■ 91.1702, 93.4859,  
103.7667

■ 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.



42.7409, 25.0479, 69.1521



47.5380, 25.0479, 31.1834



44.6976, 25.0479, 9.9899

# Triad

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



47.5380, 25.0479, 31.1834



16.5693, 25.0479, 1.9617



14.8569, 25.0479, 99.3063

# Complementary

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



47.5380, 25.0479, 31.1834



41.8651, 74.0678, 39.2924

# 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.



10.7150, 25.0479, 57.8008



47.5380, 25.0479, 31.1834



11.4998, 25.0479, 7.0290

# Square

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



47.5380, 25.0479, 31.1834



25.1362, 25.0479, 1.1883



9.6768, 25.0479, 23.7038



22.5261, 25.0479, 122.0936



# Rectangle

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



47.5380, 25.0479, 31.1834



39.1794, 25.0479, 4.1268



9.6768, 25.0479, 23.7038



13.0961, 25.0479, 86.1254

# Sweetspot

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



47.5387, 25.0493, 31.1838



73.3417, 63.9973, 78.8078



30.4230, 14.7767, 95.8564



15.1661, 12.8353, 16.0702



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.



47.5387, 25.0493, 31.1838



45.2607, 22.8683, 23.1025



42.4994, 23.0336, 4.6471



18.3955, 18.1415, 20.6997



23.7253, 11.9794, 12.4700



2.3652, 1.1885, 1.5048



# Inverse Universe

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



47.5387, 25.0493, 31.1838



45.2607, 22.8683, 23.1025



54.1563, 78.9842, 104.0167



18.3955, 18.1415, 20.6997



23.7253, 11.9794, 12.4700



2.3652, 1.1885, 1.5048



# Previews

## White Background



This preview shows how the XYZ color 47.5380, 25.0479, 31.1834 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

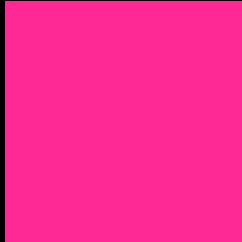
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.5380, 25.0479, 31.1834 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 47.5380, 25.0479, 31.1834**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.5380, 25.0479, 31.1834.



This preview shows how white text looks on a background with the XYZ color 47.5380, 25.0479,



# 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

47.5380, 25.0479, 31.1834

### Protanopia

26.7312, 25.3268, 63.1542

### Deuteranopia

25.6988, 25.1525, 28.3114



## Tritanopia

42.6898, 25.0352, 8.5435

# Trichromacy



## Original Color

47.5380, 25.0479, 31.1834



## Protanomaly

28.9332, 20.7877, 49.5012



## Deuteranomaly

30.3303, 21.8193, 28.9985



## Tritanomaly

44.0091, 24.7435, 14.5130

# Monochromacy



## Original Color

47.5380, 25.0479, 31.1834



## Achromatopsia

16.9083, 17.7888, 19.3720



## Achromatomaly

23.4712, 16.9452, 22.8026

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5380, 25.0479, 31.1834 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, 41, 150)` looks like.

```
.text, #text, p{  
    color:rgb(255, 41, 150)  
}
```

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, 41, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 41, 150) }
```

## Border

The CSS property to change the border of an element to XYZ 47.5380, 25.0479, 31.1834 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, 41, 150) }
```



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

```
.border{ border-color:rgb(255, 41, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 41, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 41, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 41, 150);  
box-shadow:4px 4px 4px 4px rgb(255, 41,  
150) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.5380, 25.0479, 31.1834 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 41, 150) }
```

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

```
.background{ background-color: rgb(255, 41,  
150) }
```

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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