

# Converting Colors

XYZ(45.2312, 24.3309, 31.8177)

Have a look what the booklet for  
XYZ(45.2312, 24.3309, 31.8177)  
contains.

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# Color

**XYZ(45.1659, 24.3224,  
32.0199)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F73298
RGB	247, 50, 152
RGB Percent	97%, 20%, 60%
CMY	0.0314, 0.8039, 0.4039
CMYK	0.00, 0.80, 0.38, 0.03
HSL	329°, 92%, 58%
HSV	329°, 80%, 97%
XYZ	45.1659, 24.3224, 32.0199
YIQ	120.5310, 84.6700, 73.4860

# Conversions

## Conversions Part 2

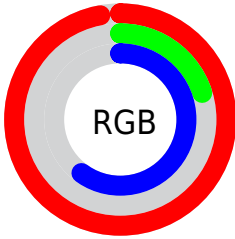
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	247, 50, 152
Decimal	16200344
CIE Lab	56.41, 78.07, -8.16
CIE LCh	56, 78.493, 354.036
Yxy	24.3224, 0.4449, 0.2396
Android (android.graphics.Color)	4294390424 (0xFFFF73298)
YUV	120.5310, 15.5142, 110.9133
Hunter-Lab	49.3177, 77.1668, -3.9720

# Details

The XYZ color **45.1659, 24.3224, 32.0199** is a light color, and the websafe version is hex **FF3399**. The color can be described as light washed rose. A complement of this color would be **39.6890, 69.2449, 38.0683**, and the grayscale version is **17.9579, 18.8931, 20.5746**.

A 20% lighter version of the original color is **58.7419, 38.4388, 62.7159**, and **22.3565, 11.2539, 13.3058** is the 20% darker color. If you saturate the color by 10%, you get **43.4523, 22.3791, 26.8744**, and if you desaturate by 10%, it is **47.5476, 27.4451, 37.8719**.

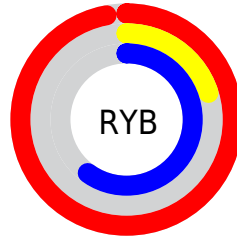
# Distribution



Red (97%)

Green (20%)

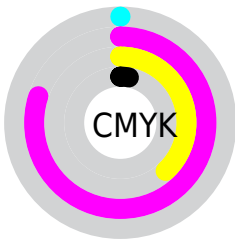
Blue (60%)



Red (97%)

Yellow (20%)

Blue (60%)

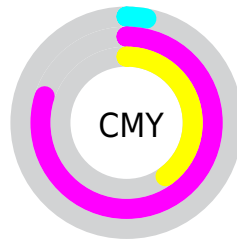


Cyan (0%)

Magenta (80%)

Yellow (38%)

Black (3%)



Cyan (3%)

Magenta (80%)


Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.1659, 24.3224, 32.0199 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 45.1659, 24.3224, 32.0199 by changing the saturation by 10% instead.




 45.1659, 24.3224,  
32.0199


 45.1659, 24.3224,  
32.0199


358.2174,  
274.4464, 325.7054

 31.7900, 15.5729,  
21.1118


 82.2048, 50.5558,  
63.9406


 21.3559, 9.2225,  
13.0137


 106.5985, 68.8085,  
85.7901

 13.4983, 4.8866,  
7.3071


 135.3955, 90.9978,  
112.1240

 7.8519, 2.1809,  
3.5736

 168.9612,  
117.5081, 143.3606

 4.0514, 0.7095,  
1.3944

 207.6609,  
148.7237, 179.9185

 1.7312, 0.0000,  
0.1374

251.8599,

 0.4757, 0.0000,

185.0290, 222.2162

0.0000

301.9236,  
226.8084, 270.6723

■ 0.0000, 0.0000,  
0.0000

■ 45.1659, 24.3224,  
32.0199

■ 45.1659, 24.3224,  
32.0199

■ 43.4523, 22.3791,  
26.8744

■ 47.5476, 27.4451,  
37.8719

■ 42.2724, 21.3507,  
22.3760


■ 50.6783, 31.9046,  
44.4705


■ 42.2461, 21.3295,  
22.2707

■ 54.6287, 37.8381,  
51.8525


■ 59.4605, 45.3647,  
60.0509

■ 65.2289, 54.5910,  
69.0965

 71.9845, 65.6145,  
79.0177

 79.7742, 78.5252,  
89.8416

 88.6417, 93.4070,  
101.5938

 92.1678, 98.5142,  
108.7651

# Harmonies

## Analogous

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



40.3033, 24.3224, 67.9839



45.1659, 24.3224, 32.0199



42.9860, 24.3224, 10.9028

# Triad

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



45.1659, 24.3224, 32.0199



16.7165, 24.3224, 2.0443



14.3129, 24.3224, 90.9773

# Complementary

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



45.1659, 24.3224, 32.0199



39.6890, 69.2449, 38.0683

# 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.



10.5669, 24.3224, 52.4836



45.1659, 24.3224, 32.0199



11.6793, 24.3224, 6.6459

# Square

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



45.1659, 24.3224, 32.0199



24.9778, 24.3224, 1.3929



9.7477, 24.3224, 21.6242



21.3523, 24.3224, 113.7071



# Rectangle

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



45.1659, 24.3224, 32.0199



38.0604, 24.3224, 4.7251



9.7477, 24.3224, 21.6242



12.7091, 24.3224, 78.5900

# Sweetspot

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



45.1666, 24.3238, 32.0203



74.1442, 65.2174, 80.2619



29.0752, 14.7436, 89.3091



15.3241, 13.0703, 16.3724



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.



45.1666, 24.3238, 32.0203



45.8618, 23.2858, 25.7217



40.2272, 22.3480, 6.0099



16.8574, 16.6258, 18.9956



22.4148, 11.3094, 12.1586



2.0220, 1.0148, 1.3422



# Inverse Universe

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



45.1666, 24.3238, 32.0203



45.8618, 23.2858, 25.7217



50.3697, 73.5172, 94.3119



16.8574, 16.6258, 18.9956



22.4148, 11.3094, 12.1586



2.0220, 1.0148, 1.3422



# Previews

## White Background



This preview shows how the XYZ color 45.1659, 24.3224, 32.0199 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

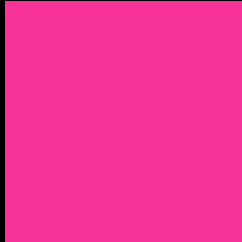
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.1659, 24.3224, 32.0199 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 45.1659, 24.3224, 32.0199**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.1659, 24.3224, 32.0199.



This preview shows how white text looks on a background with the XYZ color 45.1659, 24.3224,



# 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

45.1659, 24.3224, 32.0199

### Protanopia

25.9585, 24.5463, 61.7623

### Deuteranopia

24.9878, 24.5665, 29.0160



## Tritanopia

40.4063, 24.3106, 9.5840

# Trichromacy



## Original Color

45.1659, 24.3224, 32.0199



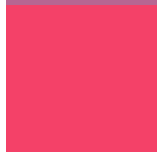
## Protanomaly

28.2104, 20.7192, 48.9667



## Deuteranomaly

29.4681, 21.6453, 29.8190



## Tritanomaly

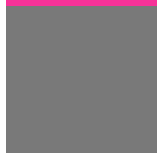
41.6972, 24.0132, 15.5340

# Monochromacy



## Original Color

45.1659, 24.3224, 32.0199



## Achromatopsia

18.1737, 19.1202, 20.8219



## Achromatomaly

24.1934, 18.0659, 24.0417

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.1659, 24.3224, 32.0199 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(247, 50, 152)` looks like.

```
.text, #text, p{  
    color:rgb(247, 50, 152)  
}
```

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(247, 50, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 50, 152) }
```

## Border

The CSS property to change the border of an element to XYZ 45.1659, 24.3224, 32.0199 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(247, 50, 152) }
```



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

```
.border{ border-color:rgb(247, 50, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 50, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 50, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 50, 152);  
box-shadow:4px 4px 4px 4px rgb(247, 50,  
152) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.1659, 24.3224, 32.0199 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 50, 152) }
```

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

```
.background{ background-color: rgb(247, 50,  
152) }
```

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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