

# Converting Colors

XYZ(45.8334, 24.8181, 20.8135)

Have a look what the booklet for  
XYZ(45.8334, 24.8181, 20.8135)  
contains.

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# Color

**XYZ(45.8098, 24.7790,  
20.7807)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF307A
RGB	255, 48, 122
RGB Percent	100%, 19%, 48%
CMY	0.0000, 0.8117, 0.5216
CMYK	0.00, 0.81, 0.52, 0.00
HSL	339°, 100%, 59%
HSV	339°, 81%, 100%
XYZ	45.8098, 24.7790, 20.7807
YIQ	118.3290, 99.6180, 66.8980

# Conversions

## Conversions Part 2

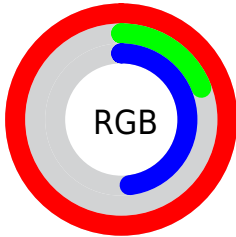
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 48, 122
Decimal	16724090
CIE <sub>Lab</sub>	56.86, 77.97, 10.47
CIE <sub>LCh</sub>	57, 78.672, 7.648
Yxy	24.7790, 0.5014, 0.2712
Android (android.graphics.Color)	4294914170 (0xFFFF307A)
YUV	118.3290, 1.8098, 119.8605
Hunter-Lab	49.7785, 77.1563, 10.0936

# Details

The XYZ color **45.8098, 24.7790, 20.7807** is a dark color, and the websafe version is hex **FF0066**. The color can be described as middle washed rose. A complement of this color would be **45.3219, 75.4855, 55.9068**, and the grayscale version is **17.2982, 18.1990, 19.8187**.

A 20% lighter version of the original color is **55.1254, 36.8068, 44.2434**, and **22.7219, 11.5708, 7.5144** is the 20% darker color. If you saturate the color by 10%, you get **44.1183, 22.8864, 15.6231**, and if you desaturate by 10%, it is **48.2720, 27.9395, 27.0401**.

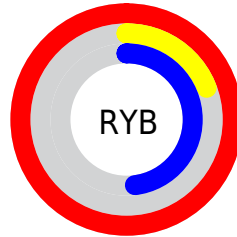
# Distribution



Red (100%)

Green (19%)

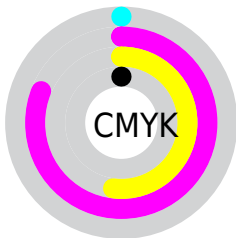
Blue (48%)



Red (100%)

Yellow (19%)

Blue (48%)

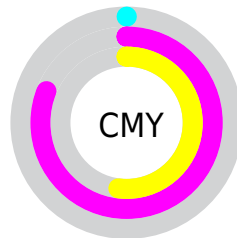


Cyan (0%)

Magenta (81%)

Yellow (52%)

Black (0%)



Cyan (0%)

Magenta (81%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.8098, 24.7790, 20.7807 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 45.8098, 24.7790, 20.7807 by changing the saturation by 10% instead.




 45.8098, 24.7790,  
20.7807


 45.8098, 24.7790,  
20.7807


360.7722,  
276.7356, 268.8534


 32.2997, 15.9125,  
12.7741


 83.1639, 51.2985,  
45.5983


 21.7472, 9.4622,  
7.1443


 107.7386, 69.7202,  
63.2464


 13.7868, 5.0439,  
3.4727


 136.7323, 92.0958,  
84.9455

 8.0533, 2.2730,  
1.3408

 170.5103,  
118.8097, 111.1140

 4.1811, 0.7594,  
0.0949

 209.4379,  
150.2462, 142.1705

 1.8051, 0.0000,  
0.0000

253.8805,

 0.5207, 0.0000,

186.7897, 178.5335

0.0000

304.2035,  
228.8247, 220.6216

■ 0.0000, 0.0000,  
0.0000

■ 45.8098, 24.7790,  
20.7807

■ 45.8098, 24.7790,  
20.7807

■ 44.1183, 22.8864,  
15.6231

■ 48.2720, 27.9395,  
27.0401

■ 43.1345, 22.0178,  
11.9069

■ 51.6006, 32.5459,  
34.4720

■ 55.8782, 38.7516,  
43.1410

■ 61.1768, 46.6894,  
53.1060

■ 67.5612, 56.4780,  
64.4215

75.0904, 68.2254,  
77.1386

83.8192, 82.0314,  
91.3056

93.7988, 97.9890,  
106.9683

95.0499, 99.9999,  
108.9000

# Harmonies

## Analogous

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



44.0071, 24.7790, 51.2136



45.8098, 24.7790, 20.7807



40.5295, 24.7790, 6.3517

# Triad

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



45.8098, 24.7790, 20.7807



14.3105, 24.7790, 3.4568



17.4414, 24.7790, 106.2595

# Complementary

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



45.8098, 24.7790, 20.7807



45.3219, 75.4855, 55.9068

# 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.



12.1333, 24.7790, 71.2964



45.8098, 24.7790, 20.7807



10.6816, 24.7790, 11.9294

# Square

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



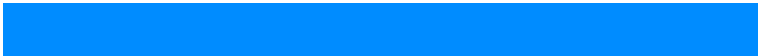
45.8098, 24.7790, 20.7807



21.2738, 24.7790, 1.4723



10.0044, 24.7790, 34.3041



25.9866, 24.7790, 114.8556



# Rectangle

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



45.8098, 24.7790, 20.7807



34.3496, 24.7790, 2.8180



10.0044, 24.7790, 34.3041



15.2931, 24.7790, 96.4530

# Sweetspot

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



45.8104, 24.7805, 20.7811



72.8400, 64.6957, 73.3941



37.7226, 18.9317, 96.2734



15.0132, 12.9460, 14.7354



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.



45.8104, 24.7805, 20.7811



43.4372, 22.2717, 13.0906



44.3318, 26.5895, 5.5940



18.2776, 18.0943, 20.0789



22.6032, 11.5306, 6.5608



2.2507, 1.1426, 0.9014



# Inverse Universe

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



45.8104, 24.7805, 20.7811



43.4372, 22.2717, 13.0906



46.8489, 63.0072, 104.2999



18.2776, 18.0943, 20.0789



22.6032, 11.5306, 6.5608



2.2507, 1.1426, 0.9014



# Previews

## White Background



This preview shows how the XYZ color 45.8098, 24.7790, 20.7807 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

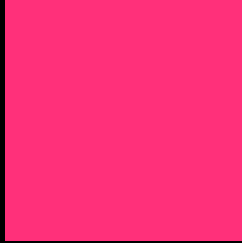
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.8098, 24.7790, 20.7807 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 45.8098, 24.7790, 20.7807**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.8098, 24.7790, 20.7807.



This preview shows how white text looks on a background with the XYZ color 45.8098, 24.7790,



# 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

45.8098, 24.7790, 20.7807

### Protanopia

24.7851, 24.8222, 40.5306

### Deuteranopia

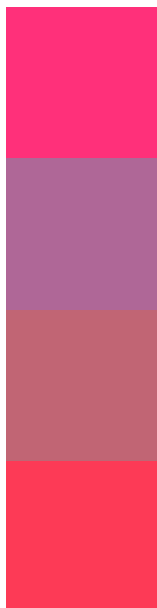
25.1415, 24.6716, 18.7662



## Tritanopia

42.9616, 24.7556, 7.6682

# Trichromacy



## Original Color

45.8098, 24.7790, 20.7807

## Protanomaly

28.1154, 21.0488, 31.8591

## Deuteranomaly

29.7984, 21.9058, 19.1807

## Tritanomaly

43.7008, 24.5806, 11.2453

# Monochromacy



## Original Color

45.8098, 24.7790, 20.7807

## Achromatopsia

17.2197, 18.1164, 19.7288

## Achromatomaly

23.3926, 17.4854, 19.5949

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.8098, 24.7790, 20.7807 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, 48, 122)` looks like.

```
.text, #text, p{  
    color:rgb(255, 48, 122)  
}
```

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, 48, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 48, 122) }
```

## Border

The CSS property to change the border of an element to XYZ 45.8098, 24.7790, 20.7807 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, 48, 122) }
```



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

```
.border{ border-color:rgb(255, 48, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 48, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 48, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 48, 122);  
box-shadow:4px 4px 4px 4px rgb(255, 48,  
122) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.8098, 24.7790, 20.7807 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 48, 122) }
```

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

```
.background{ background-color: rgb(255, 48,  
122) }
```

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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