

# Converting Colors

XYZ(48.8210, 27.7474, 31.1998)

Have a look what the booklet for  
XYZ(48.8210, 27.7474, 31.1998)  
contains.

<b>XYZ(48.8550, 27.8102, 31.2267)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(48.8550, 27.8102,  
31.2267)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF4695
RGB	255, 70, 149
RGB Percent	100%, 27%, 58%
CMY	0.0000, 0.7254, 0.4157
CMYK	0.00, 0.73, 0.42, 0.00
HSL	334°, 100%, 64%
HSV	334°, 73%, 100%
XYZ	48.8550, 27.8102, 31.2267
YIQ	134.3210, 84.9010, 63.7890

# Conversions

## Conversions Part 2

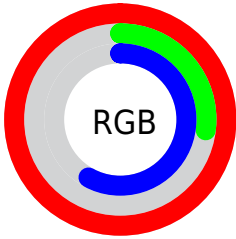
Format	Color
R <sub>Y</sub> B	255, 70, 149
Decimal	16729749
CIE Lab	59.72, 74.16, -1.35
CIE LCh	60, 74.169, 358.960
Yxy	27.8102, 0.4528, 0.2578
Android (android.graphics.Color)	4294919829 (0xFFFF4695)
YUV	134.3210, 7.2367, 105.8355
Hunter-Lab	52.7354, 73.0787, 1.8068

# Details

The XYZ color **48.8550, 27.8102, 31.2267** 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 **46.1242, 75.9576, 53.3105**, and the grayscale version is **22.7321, 23.9160, 26.0445**.

A 20% lighter version of the original color is **60.2708, 42.0743, 61.4445**, and **24.2445, 12.2383, 12.8888** is the 20% darker color. If you saturate the color by 10%, you get **46.4901, 24.8318, 25.0394**, and if you desaturate by 10%, it is **52.0443, 32.2033, 38.4114**.

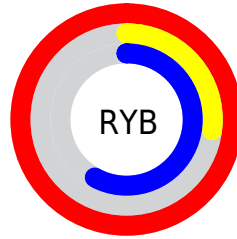
# Distribution



Red (100%)

Green (27%)

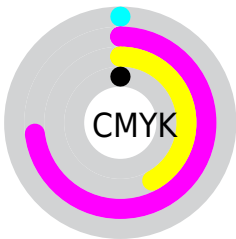
Blue (58%)



Red (100%)

Yellow (27%)

Blue (58%)

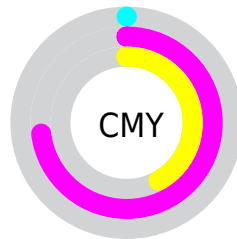


Cyan (0%)

Magenta (73%)

Yellow (42%)

Black (0%)



Cyan (0%)

Magenta (73%)


Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8550, 27.8102, 31.2267 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 48.8550, 27.8102, 31.2267 by changing the saturation by 10% instead.





 48.8550, 27.8102,  
31.2267


 48.8550, 27.8102,  
31.2267


372.6976,  
291.5589, 321.9648

 34.7185, 18.1826,  
20.5116


 87.6781, 56.1813,  
62.6806

 23.6116, 11.0812,  
12.5797

 113.0954, 75.6936,  
84.2564


 15.1690, 6.1215,  
7.0125


 143.0037, 99.2696,  
110.2897

 9.0251, 2.9191,  
3.3913

 177.7684,  
127.2937, 141.1988

 4.8148, 1.0896,  
1.2978

 217.7547,  
160.1502, 177.4023

 2.1727, 0.0000,  
0.0600

263.3282,

 0.7283, 0.0000,

198.2237, 219.3188

0.0000

314.8540,  
241.8985, 267.3668

■ 0.0000, 0.0000,  
0.0000

■ 48.8550, 27.8102,  
31.2267

■ 48.8550, 27.8102,  
31.2267

■ 46.4901, 24.8318,  
25.0394

■ 52.0443, 32.2033,  
38.4114

■ 44.8497, 23.0768,  
19.7889

■ 56.1372, 38.1610,  
46.6444

■ 43.9940, 22.3616,  
16.4325

■ 61.2053, 45.8188,  
55.9740

■ 67.3120, 55.2964,  
66.4441

■ 74.5154, 66.7024,  
78.0961

82.8688, 80.1368,  
90.9689

92.4221, 95.6928,  
105.0996

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.



45.0751, 27.8102, 65.4502



48.8550, 27.8102, 31.2267



45.5434, 27.8102, 11.5346

# Triad

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



48.8550, 27.8102, 31.2267



18.6318, 27.8102, 3.8514



18.1869, 27.8102, 99.5206

# Complementary

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



48.8550, 27.8102, 31.2267



46.1242, 75.9576, 53.3105

# 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.



13.5926, 27.8102, 62.7760



48.8550, 27.8102, 31.2267



13.8035, 27.8102, 10.7032

# Square

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



48.8550, 27.8102, 31.2267



26.7611, 27.8102, 2.4405



12.1986, 27.8102, 29.3538



26.1071, 27.8102, 116.7461



# Rectangle

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



48.8550, 27.8102, 31.2267



40.1184, 27.8102, 5.6514



12.1986, 27.8102, 29.3538



16.2782, 27.8102, 88.2728

# Sweetspot

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



48.8557, 27.8117, 31.2272



74.9401, 67.3807, 78.7651



37.8839, 20.6971, 96.6060



15.5947, 13.7118, 16.1533



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.



48.8557, 27.8117, 31.2272



45.6763, 23.9114, 22.5881



45.3892, 27.7890, 8.7678



18.3313, 18.1158, 20.3617



23.0590, 11.7129, 8.9609



2.2985, 1.1618, 1.1535



# Inverse Universe

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



48.8557, 27.8117, 31.2272



45.6763, 23.9114, 22.5881



52.5278, 72.4248, 105.8186



18.3313, 18.1158, 20.3617



23.0590, 11.7129, 8.9609



2.2985, 1.1618, 1.1535



# Previews

## White Background



This preview shows how the XYZ color 48.8550, 27.8102, 31.2267 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

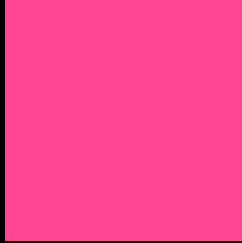
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 48.8550, 27.8102, 31.2267 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

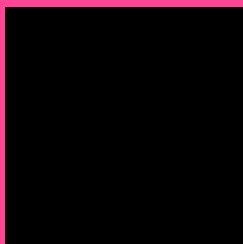
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.8550, 27.8102, 31.2267**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8550, 27.8102, 31.2267.



This preview shows how white text looks on a background with the XYZ color 48.8550, 27.8102,



# 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

48.8550, 27.8102, 31.2267

### Protanopia

28.6165, 27.9869, 54.9327

### Deuteranopia

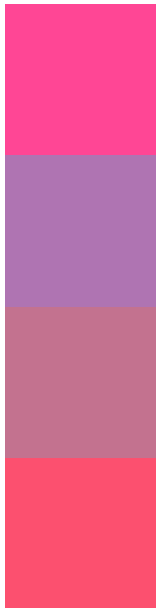
28.4634, 27.8323, 28.6829



## Tritanopia

44.8776, 27.7444, 12.6628

# Trichromacy



## Original Color

48.8550, 27.8102, 31.2267

## Protanomaly

31.9605, 24.8191, 45.2255

## Deuteranomaly

33.4809, 25.6199, 29.1671

## Tritanomaly

45.8828, 27.5805, 17.9442

# Monochromacy



## Original Color

48.8550, 27.8102, 31.2267

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

28.7047, 22.6979, 27.2943

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8550, 27.8102, 31.2267 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, 70, 149)` looks like.

```
.text, #text, p{  
    color:rgb(255, 70, 149)  
}
```

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, 70, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 70, 149) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8550, 27.8102, 31.2267 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, 70, 149) }
```



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

```
.border{ border-color:rgb(255, 70, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 70, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 70, 149); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 70, 149); box-shadow:4px 4px 4px 4px rgb(255, 70, 149) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8550, 27.8102, 31.2267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 70, 149) }
```

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

```
.background{ background-color: rgb(255, 70,  
149) }
```

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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