

# Converting Colors

XYZ(59.8245, 34.4329, 12.6942)

Have a look what the booklet for  
XYZ(59.8245, 34.4329, 12.6942)  
contains.

<b>XYZ(45.5859, 27.1335, 12.0672)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.5859, 27.1335,  
12.0672)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF4C58
RGB	255, 76, 88
RGB Percent	100%, 30%, 35%
CMY	0.0000, 0.7019, 0.6549
CMYK	0.00, 0.70, 0.65, 0.00
HSL	356°, 100%, 65%
HSV	356°, 70%, 100%
XYZ	45.5859, 27.1335, 12.0672
YIQ	130.8890, 102.8320, 41.6800

# Conversions

## Conversions Part 2

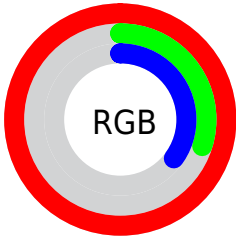
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 76, 88
Decimal	16731224
CIE Lab	59.10, 67.68, 33.41
CIE LCh	59, 75.482, 26.272
Yxy	27.1335, 0.5377, 0.3200
Android (android.graphics.Color)	4294921304 (0xFFFF4C58)
YUV	130.8890, -21.1443, 108.8453
Hunter-Lab	52.0898, 65.0553, 22.7277

# Details

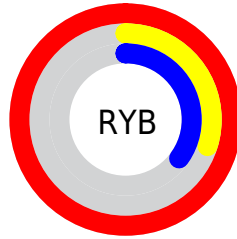
The XYZ color **45.5859, 27.1335, 12.0672** is a dark color, and the websafe version is hex **FF6666**. The color can be described as middle washed red. A complement of this color would be **54.9206, 79.5283, 97.2587**, and the grayscale version is **21.5829, 22.7069, 24.7278**.

A 20% lighter version of the original color is **54.4914, 40.4229, 28.9751**, and **21.9219, 11.2508, 3.3017** is the 20% darker color. If you saturate the color by 10%, you get **43.3337, 23.9577, 7.2221**, and if you desaturate by 10%, it is **48.8564, 31.8323, 18.8381**.

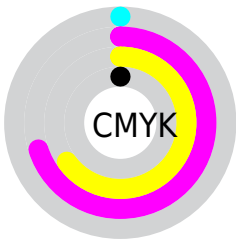
# Distribution



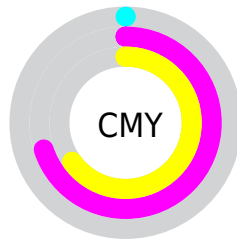
- Red (100%)
- Green (30%)
- Blue (35%)



- Red (100%)
- Yellow (30%)
- Blue (35%)



- Cyan (0%)
- Magenta (70%)
- Yellow (65%)
- Black (0%)




- Cyan (0%)
- Magenta (70%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5859, 27.1335, 12.0672 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 45.5859, 27.1335, 12.0672 by changing the saturation by 10% instead.





 45.5859, 27.1335,  
12.0672

 45.5859, 27.1335,  
12.0672


359.8852,  
288.3029, 215.8433


 32.1224, 17.6735,  
6.6664


 82.8306, 55.0980,  
30.2837

 21.6110, 10.7158,  
3.1791


 107.3425, 74.3713,  
43.9364


 13.6864, 5.8761,  
1.1868


 136.2679, 97.6846,  
61.1768

 7.9831, 2.7699,  
0.0000

 169.9722,  
125.4221, 82.4234

 4.1358, 1.0128,  
0.0000

 208.8207,  
157.9683, 108.0949

 1.7793, 0.0000,  
0.0000

253.1788,

 0.5051, 0.0000,

195.7075, 138.6097

0.0000

303.4119,  
239.0243, 174.3863

■ 0.0000, 0.0000,  
0.0000

■ 45.5859, 27.1335,  
12.0672

■ 45.5859, 27.1335,  
12.0672

■ 43.3337, 23.9577,  
7.2221

■ 48.8564, 31.8323,  
18.8381

■ 41.9778, 22.1117,  
4.1004


■ 53.2452, 38.2076,  
27.7066

■ 41.3415, 21.3006,  
2.4661

■ 58.8421, 46.3994,  
38.8273

■ 65.7274, 56.5315,  
52.3394

■ 73.9746, 68.7172,  
68.3712

 83.6513, 83.0608,  
87.0418

94.8211, 99.6597,  
108.4626

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



48.3070, 27.1335, 33.0323



45.5859, 27.1335, 12.0672



37.1601, 27.1335, 4.0391

# Triad

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



45.5859, 27.1335, 12.0672



13.5067, 27.1335, 9.1389



24.6342, 27.1335, 116.9140

# Complementary

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



45.5859, 27.1335, 12.0672



54.9206, 79.5283, 97.2587

# 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.



17.0131, 27.1335, 96.7183



45.5859, 27.1335, 12.0672



11.6507, 27.1335, 26.3099

# Square

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



45.5859, 27.1335, 12.0672



18.5998, 27.1335, 3.2115



12.7588, 27.1335, 58.8234



34.6279, 27.1335, 104.3160



# Rectangle

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



45.5859, 27.1335, 12.0672



30.3123, 27.1335, 2.4099



12.7588, 27.1335, 58.8234



21.7407, 27.1335, 113.5279

# Sweetspot

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



45.5865, 27.1351, 12.0676



73.2556, 67.6530, 66.9782



56.5988, 30.9305, 97.5942



15.1691, 13.7253, 13.3457



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.



45.5865, 27.1351, 12.0676



42.7192, 23.1093, 5.8419



53.5455, 43.7834, 12.4687



18.0587, 18.0068, 18.9263



21.6202, 11.1374, 1.3846



2.1215, 1.0910, 0.2214



# Inverse Universe

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



45.5865, 27.1351, 12.0676



42.7192, 23.1093, 5.8419



37.4379, 41.5699, 100.6577



18.0587, 18.0068, 18.9263



21.6202, 11.1374, 1.3846



2.1215, 1.0910, 0.2214



# Previews

## White Background



This preview shows how the XYZ color 45.5859, 27.1335, 12.0672 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

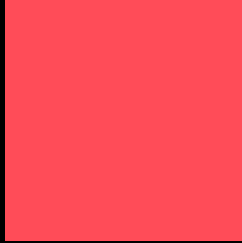
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.5859, 27.1335, 12.0672 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 45.5859, 27.1335, 12.0672**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5859, 27.1335, 12.0672.



This preview shows how white text looks on a background with the XYZ color 45.5859, 27.1335,



# 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

45.5859, 27.1335, 12.0672

### Protanopia

25.4728, 27.1402, 19.8156

### Deuteranopia

27.6710, 27.1715, 11.1833



## Tritanopia

45.3791, 27.1618, 10.6356

# Trichromacy



## Original Color

45.5859, 27.1335, 12.0672

## Protanomaly

30.0145, 24.7956, 16.5687

## Deuteranomaly

32.1689, 25.3403, 11.1783

## Tritanomaly

45.4941, 27.2078, 11.2413

# Monochromacy



## Original Color

45.5859, 27.1335, 12.0672

## Achromatopsia

21.5731, 22.6966, 24.7166

## Achromatomaly

26.6834, 21.8368, 19.0282

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5859, 27.1335, 12.0672 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, 76, 88)` looks like.

```
.text, #text, p{  
    color:rgb(255, 76, 88)  
}
```

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, 76, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 76, 88) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5859, 27.1335, 12.0672 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, 76, 88) }
```



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

```
.border{ border-color:rgb(255, 76, 88) }
```

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

Here you see how a box with a 4 pixel rgb(255, 76, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 76, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 76, 88);  
box-shadow:4px 4px 4px 4px rgb(255, 76,  
88) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5859, 27.1335, 12.0672 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 76, 88) }
```

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

```
.background{ background-color: rgb(255, 76,  
88) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor