

# Converting Colors

XYZ(47.8913, 29.2180, 8.8438)

Have a look what the booklet for  
XYZ(47.8913, 29.2180, 8.8438)  
contains.

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# Color

**XYZ(45.5158, 28.0428,  
8.8082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5446
RGB	255, 84, 70
RGB Percent	100%, 33%, 27%
CMY	0.0000, 0.6705, 0.7255
CMYK	0.00, 0.67, 0.73, 0.00
HSL	5°, 100%, 64%
HSV	5°, 73%, 100%
XYZ	45.5158, 28.0428, 8.8082
YIQ	133.5330, 106.4100, 31.8980

# Conversions

## Conversions Part 2

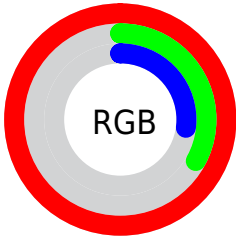
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 85, 70
Decimal	16733254
CIE <sub>Lab</sub>	59.93, 63.91, 44.41
CIE <sub>LCh</sub>	60, 77.824, 34.796
Yxy	28.0428, 0.5526, 0.3405
Android (android.graphics.Color)	4294923334 (0xFFFF5446)
YUV	133.5330, -31.3218, 106.5266
Hunter-Lab	52.9555, 60.7507, 27.2070

# Details

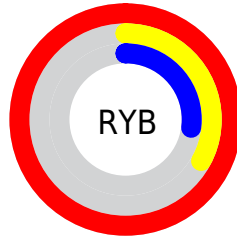
The XYZ color **45.5158, 28.0428, 8.8082** is a dark color, and the websafe version is hex **FF3333**. The color can be described as middle washed red. A complement of this color would be **52.0278, 71.4262, 105.6516**, and the grayscale version is **22.5740, 23.7496, 25.8633**.

A 20% lighter version of the original color is **54.2428, 41.9379, 22.6887**, and **21.4761, 11.1651, 1.8873** is the 20% darker color. If you saturate the color by 10%, you get **43.3430, 24.7238, 4.9203**, and if you desaturate by 10%, it is **48.6465, 32.7319, 14.7002**.

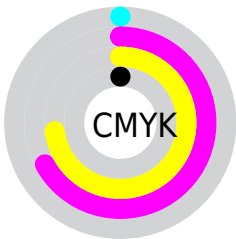
# Distribution



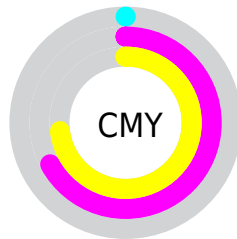
- Red (100%)
- Green (33%)
- Blue (27%)



- Red (100%)
- Yellow (33%)
- Blue (27%)



- Cyan (0%)
- Magenta (67%)
- Yellow (73%)
- Black (0%)




- Cyan (0%)
- Magenta (67%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5158, 28.0428, 8.8082 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 45.5158, 28.0428, 8.8082 by changing the saturation by 10% instead.





 45.5158, 28.0428,  
8.8082


 45.5158, 28.0428,  
8.8082


359.6072,  
292.6714, 192.1057


 32.0669, 18.3579,  
4.5212


 82.7262, 56.5528,  
24.1001

 21.5684, 11.2073,  
1.9154


 107.2184, 76.1466,  
35.9420

 13.6549, 6.2064,  
0.5025

 136.1224, 99.8123,  
51.1393

 7.9612, 2.9710,  
0.0000

 169.8036,  
127.9342, 70.1106

 4.1217, 1.1166,  
0.0000

 208.6273,  
160.8966, 93.2743

 1.7712, 0.0000,  
0.0000

252.9589,

 0.5002, 0.0000,

199.0840, 121.0490

0.0000

303.1638,  
242.8808, 153.8533

■ 0.0000, 0.0000,  
0.0000

■ 45.5158, 28.0428,  
8.8082

■ 45.5158, 28.0428,  
8.8082

■ 43.3430, 24.7238,  
4.9203

■ 48.6465, 32.7319,  
14.7002

■ 42.0149, 22.6222,  
2.7682

■ 52.8272, 38.9129,  
22.8161

■ 41.4779, 21.7362,  
2.0094

■ 58.1415, 46.6995,  
33.3483

■ 64.6636, 56.1933,  
46.4683

■ 72.4618, 67.4871,  
62.3317

81.5990, 80.6675,  
81.0820

92.1342, 95.8150,  
102.8527

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.



50.4463, 28.0428, 26.2030



45.5158, 28.0428, 8.8082



35.5985, 28.0428, 3.0130

# Triad

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



45.5158, 28.0428, 8.8082



12.8857, 28.0428, 12.7196



28.2756, 28.0428, 123.2945

# Complementary

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



45.5158, 28.0428, 8.8082



52.0278, 71.4262, 105.6516

# 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.



19.3490, 28.0428, 111.0608



45.5158, 28.0428, 8.8082



11.8412, 28.0428, 35.3174

# Square

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



45.5158, 28.0428, 8.8082



17.2088, 28.0428, 4.0937



13.8901, 28.0428, 73.3448



39.0438, 28.0428, 100.6357



# Rectangle

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



45.5158, 28.0428, 8.8082



28.4158, 28.0428, 2.0732



13.8901, 28.0428, 73.3448



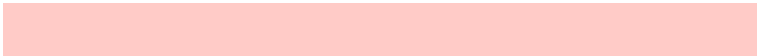
24.9663, 28.0428, 123.2090

# Sweetspot

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



45.5164, 28.0444, 8.8086



72.9282, 68.1609, 63.2846



59.5572, 32.0912, 87.5850



15.1250, 13.8886, 12.5558



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.



45.5164, 28.0444, 8.8086



42.6551, 23.6477, 3.7662



57.6428, 52.2972, 12.8508



18.1199, 18.2079, 18.7038



21.7124, 11.4360, 1.0630



2.1505, 1.1864, 0.1157



# Inverse Universe

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



52.0278, 71.4262, 105.6516



49.3145, 68.8108, 105.2904



31.5087, 30.3881, 98.8119



18.4302, 20.2320, 23.1837



25.1075, 35.1247, 54.8910



2.4783, 3.4873, 5.3558



# Previews

## White Background



This preview shows how the XYZ color 45.5158, 28.0428, 8.8082 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 45.5158, 28.0428, 8.8082 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 45.5158, 28.0428, 8.8082**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5158, 28.0428, 8.8082.



This preview shows how white text looks on a background with the XYZ color 45.5158, 28.0428,



# 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

45.5158, 28.0428, 8.8082

### Protanopia

26.0714, 28.2581, 13.7531

### Deuteranopia

28.7003, 28.1960, 8.0674



## Tritanopia

45.9776, 27.9827, 11.9947

# Trichromacy



## Original Color

45.5158, 28.0428, 8.8082

## Protanomaly

30.6366, 26.1279, 11.6121

## Deuteranomaly

33.1078, 26.5811, 8.0883

## Tritanomaly

45.8185, 28.0406, 10.7821

# Monochromacy



## Original Color

45.5158, 28.0428, 8.8082

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

27.4747, 23.1035, 18.0503

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5158, 28.0428, 8.8082 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, 84, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 84, 70)  
}
```

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, 84, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 84, 70) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5158, 28.0428, 8.8082 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, 84, 70) }
```



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

```
.border{ border-color:rgb(255, 84, 70) }
```

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

Here you see how a box with a 4 pixel rgb(255, 84, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 84, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 84, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 84,  
70) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5158, 28.0428, 8.8082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 84, 70) }
```

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

```
.background{ background-color: rgb(255, 84,  
70) }
```

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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