

# Converting Colors

XYZ(49.0293, 29.8687, 9.3496)

Have a look what the booklet for  
XYZ(49.0293, 29.8687, 9.3496)  
contains.

<b>XYZ(45.5800, 28.0685, 9.1463)</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(45.5800, 28.0685,  
9.1463)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5448
RGB	255, 84, 72
RGB Percent	100%, 33%, 28%
CMY	0.0000, 0.6705, 0.7176
CMYK	0.00, 0.67, 0.72, 0.00
HSL	4°, 100%, 64%
HSV	4°, 72%, 100%
XYZ	45.5800, 28.0685, 9.1463
YIQ	133.7610, 105.7680, 32.5200

# Conversions

## Conversions Part 2

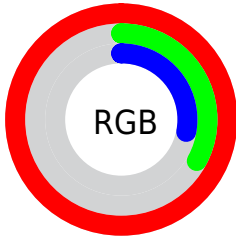
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 85, 72
Decimal	16733256
CIE <sub>Lab</sub>	59.95, 63.99, 43.36
CIE <sub>LCh</sub>	60, 77.298, 34.120
Yxy	28.0685, 0.5505, 0.3390
Android (android.graphics.Color)	4294923336 (0xFFFF5448)
YUV	133.7610, -30.4482, 106.3266
Hunter-Lab	52.9797, 60.8543, 26.8501

# Details

The XYZ color **45.5800, 28.0685, 9.1463** 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 **52.7697, 72.6922, 105.8568**, and the grayscale version is **22.6547, 23.8345, 25.9558**.

A 20% lighter version of the original color is **54.3642, 41.9865, 23.3281**, and **21.5090, 11.1782, 2.0609** is the 20% darker color. If you saturate the color by 10%, you get **43.3684, 24.7122, 5.1210**, and if you desaturate by 10%, it is **48.7663, 32.8232, 15.1973**.

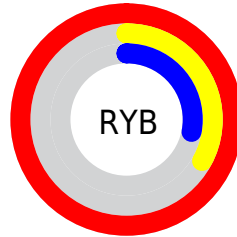
# Distribution



Red (100%)

Green (33%)

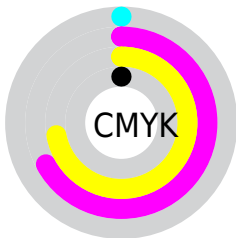
Blue (28%)



Red (100%)

Yellow (33%)

Blue (28%)

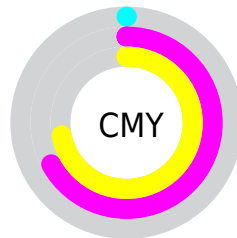


Cyan (0%)

Magenta (67%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (67%)


Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5800, 28.0685, 9.1463 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 45.5800, 28.0685, 9.1463 by changing the saturation by 10% instead.





 45.5800, 28.0685,  
9.1463


 45.5800, 28.0685,  
9.1463

359.8618,  
292.7941, 194.7236


 32.1177, 18.3773,  
4.7386


 82.8218, 56.5938,  
24.7591

 21.6074, 11.2212,  
2.0387


 107.3320, 76.1967,  
36.8013

 13.6837, 6.2158,  
0.5789


 136.2557, 99.8722,  
52.2254

 7.9812, 2.9768,  
0.0000

 169.9580,  
128.0049, 71.4500

 4.1347, 1.1196,  
0.0000

 208.8045,  
160.9790, 94.8935

 1.7786, 0.0000,  
0.0000

253.1603,

 0.5047, 0.0000,

199.1790, 122.9746

0.0000

303.3910,  
242.9892, 156.1118

■ 0.0000, 0.0000,  
0.0000

■ 45.5800, 28.0685,  
9.1463

■ 45.5800, 28.0685,  
9.1463

■ 43.3684, 24.7122,  
5.1210

■ 48.7663, 32.8232,  
15.1973

■ 42.0169, 22.5976,  
2.8567


■ 53.0207, 39.1014,  
23.4919


■ 41.4361, 21.6526,  
1.9954

■ 58.4278, 47.0201,  
34.2215

■ 65.0634, 56.6831,  
47.5564

■ 72.9964, 68.1860,  
63.6519

 82.2910, 81.6174,  
82.6509

 93.0069, 97.0601,  
104.6868

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.



50.3142, 28.0685, 26.8360



45.5800, 28.0685, 9.1463



35.8060, 28.0685, 3.1511

# Triad

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



45.5800, 28.0685, 9.1463



13.0322, 28.0685, 12.5027



28.0592, 28.0685, 122.5617

# Complementary

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



45.5800, 28.0685, 9.1463



52.7697, 72.6922, 105.8568

# 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.



19.2507, 28.0685, 109.6930



45.5800, 28.0685, 9.1463



11.9202, 28.0685, 34.6175

# Square

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



45.5800, 28.0685, 9.1463



17.4201, 28.0685, 4.0857



13.8926, 28.0685, 72.0809



38.7443, 28.0685, 100.8278



# Rectangle

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



45.5800, 28.0685, 9.1463



28.6614, 28.0685, 2.1501



13.8926, 28.0685, 72.0809



24.7888, 28.0685, 122.1964

# Sweetspot

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



45.5806, 28.0701, 9.1467



72.7945, 67.8935, 63.2401



60.1686, 32.5393, 90.1770



15.0942, 13.8270, 12.5455



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.



45.5806, 28.0701, 9.1467



42.6985, 23.6747, 3.9644



57.2860, 51.4808, 13.0485



18.1051, 18.1783, 18.6989



21.6871, 11.3853, 1.0546



2.1435, 1.1725, 0.1133



# Inverse Universe

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



52.7697, 72.6922, 105.8568



50.1062, 70.2679, 105.5299



32.3359, 31.8246, 99.0456



18.4468, 20.2652, 23.1893



25.4911, 35.8919, 55.0189



2.5115, 3.5538, 5.3668



# Previews

## White Background



This preview shows how the XYZ color 45.5800, 28.0685, 9.1463 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

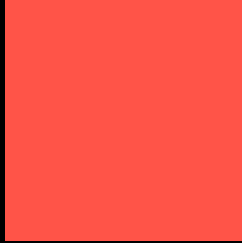
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.5800, 28.0685, 9.1463 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 45.5800, 28.0685, 9.1463**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5800, 28.0685, 9.1463.



This preview shows how white text looks on a background with the XYZ color 45.5800, 28.0685,

9.1463.

# 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

45.5800, 28.0685, 9.1463

### Protanopia

26.2017, 28.3102, 14.4394

### Deuteranopia

28.7804, 28.2281, 8.4891



## Tritanopia

46.0536, 28.1346, 12.0201

# Trichromacy



## Original Color

45.5800, 28.0685, 9.1463

## Protanomaly

30.7150, 26.1593, 12.0247

## Deuteranomaly

33.1939, 26.6156, 8.5421

## Tritanomaly

45.8562, 28.0557, 10.9810

# Monochromacy



## Original Color

45.5800, 28.0685, 9.1463

## 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 45.5800, 28.0685, 9.1463 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, 72)` looks like.

```
.text, #text, p{  
    color:rgb(255, 84, 72)  
}
```

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, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 84, 72) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5800, 28.0685, 9.1463 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, 72) }
```



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

```
.border{ border-color:rgb(255, 84, 72) }
```

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, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 84, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 84, 72);  
box-shadow:4px 4px 4px 4px rgb(255, 84,  
72) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5800, 28.0685, 9.1463 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, 72) }
```

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

```
.background{ background-color: rgb(255, 84,  
72) }
```

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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