

# Converting Colors

XYZ(45.4826, 28.1233, 8.3103)

Have a look what the booklet for  
XYZ(45.4826, 28.1233, 8.3103)  
contains.

<b>XYZ(45.5016, 28.1622, 8.3478)</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(45.5016, 28.1622,  
8.3478)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5543
RGB	255, 85, 67
RGB Percent	100%, 33%, 26%
CMY	0.0000, 0.6666, 0.7373
CMYK	0.00, 0.67, 0.74, 0.00
HSL	6°, 100%, 63%
HSV	6°, 74%, 100%
XYZ	45.5016, 28.1622, 8.3478
YIQ	133.7780, 107.0980, 30.4420

# Conversions

## Conversions Part 2

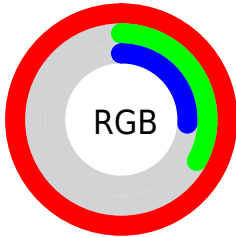
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 87, 67
Decimal	16733507
CIELab	60.03, 63.40, 46.13
CIELCh	60, 78.410, 36.039
Yxy	28.1622, 0.5548, 0.3434
Android (android.graphics.Color)	4294923587 (0xFFFF5543)
YUV	133.7780, -32.9216, 106.3117
Hunter-Lab	53.0681, 60.1803, 27.8211

# Details

The XYZ color **45.5016, 28.1622, 8.3478** 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 **50.6457, 68.9753, 105.2514**, and the grayscale version is **22.6694, 23.8499, 25.9726**.

A 20% lighter version of the original color is **54.2148, 42.1659, 21.8044**, and **21.4902, 11.2406, 1.7465** is the 20% darker color. If you saturate the color by 10%, you get **43.3689, 24.8637, 4.6573**, and if you desaturate by 10%, it is **48.5632, 32.7808, 14.0081**.

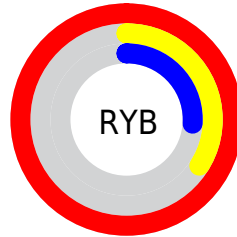
# Distribution



Red (100%)

Green (33%)

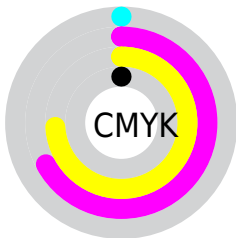
Blue (26%)



Red (100%)

Yellow (34%)

Blue (26%)

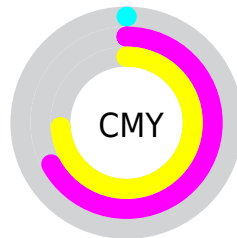


Cyan (0%)

Magenta (67%)

Yellow (74%)

Black (0%)



Cyan (0%)

Magenta (67%)


Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5016, 28.1622, 8.3478 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 45.5016, 28.1622, 8.3478 by changing the saturation by 10% instead.





 45.5016, 28.1622,  
8.3478


 45.5016, 28.1622,  
8.3478


359.5509,  
293.2412, 188.4704

 32.0557, 18.4480,  
4.2273


 82.7050, 56.7433,  
23.1948

 21.5598, 11.2721,  
1.7509


 107.1933, 76.3789,  
34.7585


 13.6486, 6.2501,  
0.3953


 136.0929,  
100.0905, 49.6403

 7.9567, 2.9978,  
0.0000

 169.7695,  
128.2624, 68.2588

 4.1188, 1.1306,  
0.0000

 208.5882,  
161.2791, 91.0325

 1.7696, 0.0039,  
0.0000

252.9144,

 0.4992, 0.0000,

199.5248, 118.3800

0.0000

303.1135,  
243.3840, 150.7197

■ 0.0000, 0.0000,  
0.0000

■ 45.5016, 28.1622,  
8.3478

■ 45.5016, 28.1622,  
8.3478

■ 43.3689, 24.8637,  
4.6573

■ 48.5632, 32.7808,  
14.0081

■ 42.0554, 22.7415,  
2.6632

■ 52.6429, 38.8341,  
21.8609

■ 41.5753, 21.9310,  
2.0418

■ 57.8213, 46.4296,  
32.1001

■ 64.1706, 55.6633,  
44.8983

■ 71.7566, 66.6233,  
60.4117

■ 80.6402, 79.3915,  
78.7843

■ 90.8783, 94.0444,  
100.1497

■ 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.



50.7786, 28.1622, 25.2320



45.5016, 28.1622, 8.3478



35.3522, 28.1622, 2.8586

# Triad

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



45.5016, 28.1622, 8.3478



12.7697, 28.1622, 13.3070



28.8398, 28.1622, 124.3772

# Complementary

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



45.5016, 28.1622, 8.3478



50.6457, 68.9753, 105.2514

# 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.



19.6986, 28.1622, 113.4317



45.5016, 28.1622, 8.3478



11.8471, 28.1622, 36.8241

# Square

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



45.5016, 28.1622, 8.3478



16.9806, 28.1622, 4.2215



14.0438, 28.1622, 75.7619



39.7359, 28.1622, 100.1422



# Rectangle

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



45.5016, 28.1622, 8.3478



28.1165, 28.1622, 2.0117



14.0438, 28.1622, 75.7619



25.4620, 28.1622, 124.8200

# Sweetspot

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



45.5022, 28.1638, 8.3482



73.1953, 68.6952, 63.3737



58.8761, 31.5259, 84.9013



15.1866, 14.0118, 12.5763



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.



45.5022, 28.1638, 8.3482



42.7144, 23.8215, 3.6156



57.9092, 52.9778, 12.4839



18.1493, 18.2668, 18.7136



21.7703, 11.5519, 1.0823



2.1644, 1.2142, 0.1203

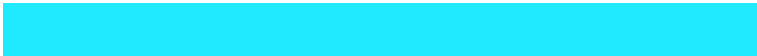


# Inverse Universe

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



50.6457, 68.9753, 105.2514



47.8845, 66.0679, 104.8363



30.5411, 28.7661, 98.5498



18.3974, 20.1663, 23.1728



24.3613, 33.6322, 54.6423



2.4134, 3.3575, 5.3341



# Previews

## White Background



This preview shows how the XYZ color 45.5016, 28.1622, 8.3478 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 45.5016, 28.1622, 8.3478 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 45.5016, 28.1622, 8.3478**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5016, 28.1622, 8.3478.



This preview shows how white text looks on a background with the XYZ color 45.5016, 28.1622,

8.3478.

# 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

45.5016, 28.1622, 8.3478

### Protanopia

26.1032, 28.2936, 12.8895

### Deuteranopia

28.8583, 28.2862, 7.6802



## Tritanopia

46.0536, 28.1346, 12.0201

# Trichromacy



## Original Color

45.5016, 28.1622, 8.3478

## Protanomaly

30.7424, 26.1998, 10.8339

## Deuteranomaly

33.4249, 26.9298, 7.7113

## Tritanomaly

45.8583, 28.1798, 10.6117

# Monochromacy



## Original Color

45.5016, 28.1622, 8.3478

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

27.4200, 23.0815, 17.7618

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5016, 28.1622, 8.3478 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, 85, 67)` looks like.

```
.text, #text, p{  
  color:rgb(255, 85, 67)  
}
```

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, 85, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 85, 67) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5016, 28.1622, 8.3478 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, 85, 67) }
```



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

```
.border{ border-color:rgb(255, 85, 67) }
```

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

Here you see how a box with a 4 pixel rgb(255, 85, 67) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 85, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 85, 67);  
box-shadow:4px 4px 4px 4px rgb(255, 85,  
67) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5016, 28.1622, 8.3478 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 85, 67) }
```

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

```
.background{ background-color: rgb(255, 85,  
67) }
```

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