

# Converting Colors

XYZ(80.1712, 54.0775, 9.9513)

Have a look what the booklet for  
XYZ(80.1712, 54.0775, 9.9513)  
contains.

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# Color

**XYZ(50.6178, 38.8735,  
8.5769)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8738
RGB	255, 135, 56
RGB Percent	100%, 53%, 22%
CMY	0.0000, 0.4706, 0.7804
CMYK	0.00, 0.47, 0.78, 0.00
HSL	24°, 100%, 61%
HSV	24°, 78%, 100%
XYZ	50.6178, 38.8735, 8.5769
YIQ	161.8740, 96.8790, 0.8710

# Conversions

## Conversions Part 2

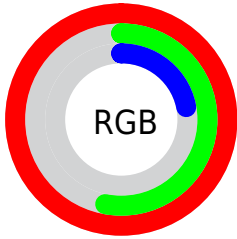
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	255, 187, 56
Decimal	16746296
CIE Lab	68.66, 40.37, 60.23
CIE LCh	69, 72.509, 56.167
Yxy	38.8735, 0.5161, 0.3964
Android (android.graphics.Color)	4294936376 (0xFFFF8738)
YUV	161.8740, -52.1959, 81.6715
Hunter-Lab	62.3486, 35.8054, 35.4879

# Details

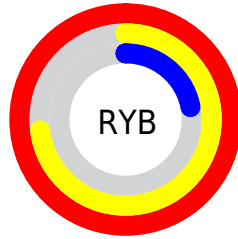
The XYZ color **50.6178, 38.8735, 8.5769** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **35.2050, 39.1090, 100.3003**, and the grayscale version is **34.4898, 36.2860, 39.5154**.

A 20% lighter version of the original color is **62.3602, 59.1696, 22.3215**, and **24.8315, 17.3930, 2.0484** is the 20% darker color. If you saturate the color by 10%, you get **48.1528, 34.7008, 5.4222**, and if you desaturate by 10%, it is **53.7116, 43.7970, 13.5065**.

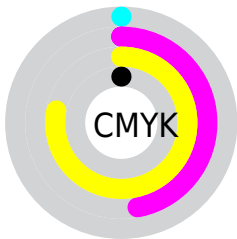
# Distribution



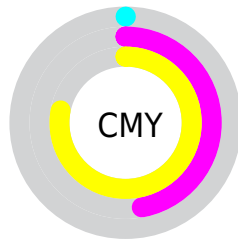
- Red (100%)
- Green (53%)
- Blue (22%)



- Red (100%)
- Yellow (73%)
- Blue (22%)



- Cyan (0%)
- Magenta (47%)
- Yellow (78%)
- Black (0%)




- Cyan (0%)
- Magenta (47%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.6178, 38.8735, 8.5769 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 50.6178, 38.8735, 8.5769 by changing the saturation by 10% instead.





 50.6178, 38.8735,  
8.5769


 50.6178, 38.8735,  
8.5769


379.4892,  
341.3524, 190.2898

 36.1243, 26.6613,  
4.3732


 90.2759, 73.4450,  
23.6464


 24.7008, 17.3190,  
1.8323


 116.1713, 96.5732,  
35.3494


 15.9818, 10.4622,  
0.4491


 146.5980,  
124.1088, 50.3892

 9.6021, 5.7065,  
0.0000

 181.9214,  
156.4362, 69.1844

 5.1961, 2.6674,  
0.0000

 222.5069,  
193.9399, 92.1535

 2.3987, 0.9607,  
0.0000

 268.7198,

 0.8445, 0.0000,

237.0042, 119.7151

0.0000

320.9254,  
286.0136, 152.2877

■ 0.0000, 0.0000,  
0.0000

■ 50.6178, 38.8735,  
8.5769

■ 50.6178, 38.8735,  
8.5769

■ 48.1528, 34.7008,  
5.4222

■ 53.7116, 43.7970,  
13.5065

■ 46.2432, 31.2231,  
3.7330

■ 57.4863, 49.5067,  
20.4365

■ 45.9167, 30.6138,  
3.4890

■ 61.9906, 56.0427,  
29.5606

■ 67.2671, 63.4398,  
41.0486

■ 73.3548, 71.7307,  
55.0536

■ 80.2899, 80.9461,  
71.7155

■ 88.1062, 91.1151,  
91.1640

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



60.4508, 38.8735, 20.1585



50.6178, 38.8735, 8.5769



38.4401, 38.8735, 5.4303

# Triad

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



50.6178, 38.8735, 8.5769



19.0412, 38.8735, 38.2484



47.5369, 38.8735, 127.9321

# Complementary

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



50.6178, 38.8735, 8.5769



35.2050, 39.1090, 100.3003

# 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.



35.4952, 38.8735, 141.6120



50.6178, 38.8735, 8.5769



20.4961, 38.8735, 76.6821

# Square

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



50.6178, 38.8735, 8.5769



21.5063, 38.8735, 16.0244



25.9918, 38.8735, 119.3182



58.4294, 38.8735, 88.0561



# Rectangle

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



50.6178, 38.8735, 8.5769



31.1485, 38.8735, 6.0512



25.9918, 38.8735, 119.3182



43.4263, 38.8735, 136.4126

# Sweetspot

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



50.6187, 38.8756, 8.5776



76.7412, 76.2566, 63.1080



50.7621, 27.3317, 45.0981



15.9014, 15.6223, 12.2568



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.



50.6187, 38.8756, 8.5776



46.9547, 32.5479, 4.2708



70.7491, 79.1365, 15.2877



18.6011, 19.1703, 18.8642



24.1284, 16.2680, 1.8683



2.4524, 1.7902, 0.2163

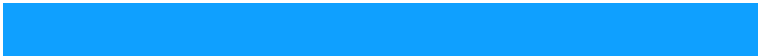


# Inverse Universe

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



35.2050, 39.1090, 100.3003



30.7941, 32.4084, 99.2402



22.4927, 13.6844, 96.0629



17.9143, 19.2002, 23.0118



15.5988, 16.1072, 51.7214



1.6256, 1.7819, 5.0715



# Previews

## White Background



This preview shows how the XYZ color 50.6178, 38.8735, 8.5769 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 50.6178, 38.8735, 8.5769 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 ✓ Pass

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

**XYZ 50.6178, 38.8735, 8.5769**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.6178, 38.8735, 8.5769.



This preview shows how white text looks on a background with the XYZ color 50.6178, 38.8735,



# 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

50.6178, 38.8735, 8.5769

### Protanopia

35.4503, 38.9517, 10.6510

### Deuteranopia

39.7956, 38.8586, 8.1993



## Tritanopia

53.6777, 38.7955, 28.7039

# Trichromacy



## Original Color

50.6178, 38.8735, 8.5769

## Protanomaly

39.9093, 38.1218, 9.8122

## Deuteranomaly

43.1824, 38.3826, 8.2646

## Tritanomaly

52.0631, 38.5753, 18.8891

# Monochromacy



## Original Color

50.6178, 38.8735, 8.5769

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

37.5683, 35.6223, 23.6346

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.6178, 38.8735, 8.5769 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, 135, 56)` looks like.

```
.text, #text, p{  
    color:rgb(255, 135, 56)  
}
```

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, 135, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 135, 56) }
```

## Border

The CSS property to change the border of an element to XYZ 50.6178, 38.8735, 8.5769 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, 135, 56) }
```



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

```
.border{ border-color:rgb(255, 135, 56) }
```

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

Here you see how a box with a 4 pixel rgb(255, 135, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 135, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 135, 56);  
box-shadow:4px 4px 4px 4px rgb(255, 135,  
56) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.6178, 38.8735, 8.5769 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 135, 56) }
```

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

```
.background{ background-color: rgb(255,  
135, 56) }
```

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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