

# Converting Colors

XYZ(53.4796, 44.7830, 8.9573)

Have a look what the booklet for  
XYZ(53.4796, 44.7830, 8.9573)  
contains.

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# Color

**XYZ(53.5589, 44.9417,  
8.9837)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF9B33                      |
| RGB         | 255, 155, 51                |
| RGB Percent | 100%, 61%, 20%              |
| CMY         | 0.0000, 0.3921, 0.8000      |
| CMYK        | 0.00, 0.39, 0.80, 0.00      |
| HSL         | 31°, 100%, 60%              |
| HSV         | 31°, 80%, 100%              |
| XYZ         | 53.5589, 44.9417, 8.9837    |
| YIQ         | 173.0440, 92.9840, -11.1440 |

# Conversions

## Conversions Part 2

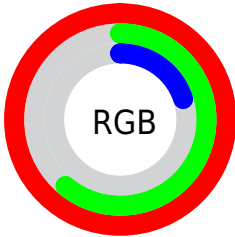
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>R<sub>YB</sub></b>               | 247, 255, 51                   |
| Decimal                             | 16751411                       |
| CIE <sub>Lab</sub>                  | 72.85, 30.00, 66.13            |
| CIE <sub>LCh</sub>                  | 73, 72.612, 65.600             |
| Yxy                                 | 44.9417, 0.4983,<br>0.4181     |
| Android<br>(android.graphics.Color) | 4294941491<br>(0xFFFF9B33)     |
| YUV                                 | 173.0440, -60.1677,<br>71.8754 |
| Hunter-Lab                          | 67.0386, 25.2909,<br>38.9817   |

# Details

The XYZ color **53.5589, 44.9417, 8.9837** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **30.4811, 30.0555, 98.8019**, and the grayscale version is **40.0083, 42.0919, 45.8380**.

A 20% lighter version of the original color is **66.8364, 68.3731, 23.0393**, and **26.5885, 20.9070, 2.6341** is the 20% darker color. If you saturate the color by 10%, you get **51.1695, 40.8298, 6.1325**, and if you desaturate by 10%, it is **56.4735, 49.6121, 13.5292**.

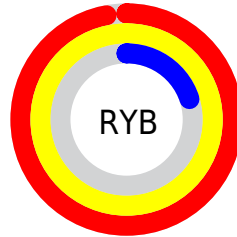
# Distribution



Red (100%)

Green (61%)

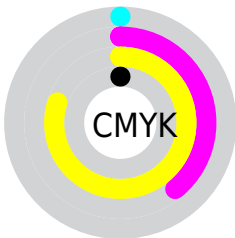
Blue (20%)



Red (97%)

Yellow (100%)

Blue (20%)

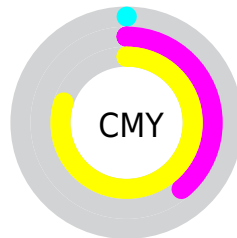


Cyan (0%)

Magenta (39%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.5589, 44.9417, 8.9837 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 53.5589, 44.9417, 8.9837 by changing the saturation by 10% instead.





 53.5589, 44.9417,  
8.9837


 53.5589, 44.9417,  
8.9837


390.6516,  
366.5374, 193.4698


 38.4784, 31.4115,  
4.6339

 94.5870, 82.6329,  
24.4427

 26.5331, 20.9124,  
1.9791


 121.2652,  
107.5627, 36.3890


 17.3576, 13.0600,  
0.5424


 152.5401,  
137.0612, 51.7046

 10.5867, 7.4699,  
0.0000

 188.7770,  
171.5128, 70.8079

 5.8549, 3.7576,  
0.0000

 230.3413,  
211.3017, 94.1176

 2.7969, 1.5389,  
0.0000

 277.5982,

 1.0473, 0.3159,

256.8126, 122.0521

0.0000

330.9132,  
308.4297, 155.0300

■ 0.0000, 0.0000,  
0.0000

■ 53.5589, 44.9417,  
8.9837

■ 53.5589, 44.9417,  
8.9837

■ 51.1695, 40.8298,  
6.1325

■ 56.4735, 49.6121,  
13.5292

■ 49.2236, 37.2275,  
4.5914

■ 59.9606, 54.8641,  
20.0008

■ 49.2233, 37.2270,  
4.5912

■ 64.0641, 60.7267,  
28.5959

■ 68.8221, 67.2245,  
39.4867

■ 74.2690, 74.3801,  
52.8272

■ 80.4367, 82.2147,  
68.7582

■ 87.3546, 90.7485,  
87.4096

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.



65.6725, 44.9417, 18.5767



53.5589, 44.9417, 8.9837



40.3883, 44.9417, 7.2144

# Triad

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



53.5589, 44.9417, 8.9837



22.8113, 44.9417, 56.0433



58.4775, 44.9417, 130.1158

# Complementary

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



53.5589, 44.9417, 8.9837



30.4811, 30.0555, 98.8019

# 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.



45.1309, 44.9417, 155.9863



53.5589, 44.9417, 8.9837



25.8497, 44.9417, 101.6435

# Square

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



53.5589, 44.9417, 8.9837



24.1902, 44.9417, 25.4507



33.4447, 44.9417, 143.5889



68.8818, 44.9417, 83.6733



# Rectangle

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



53.5589, 44.9417, 8.9837



33.0542, 44.9417, 9.1843



33.4447, 44.9417, 143.5889



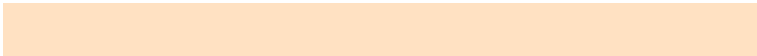
54.0973, 44.9417, 142.3294

# Sweetspot

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



53.5599, 44.9440, 8.9845



77.8809, 78.9975, 62.0645



48.1736, 25.9278, 32.6031



16.2038, 16.3154, 12.0856



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.



53.5599, 44.9440, 8.9845



49.9609, 38.6123, 5.1126



77.5971, 93.0184, 16.9969



18.7750, 19.5183, 18.9222



25.8704, 19.7520, 2.4490



2.6283, 2.1419, 0.2749



# Inverse Universe

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



30.4811, 30.0555, 98.8019



26.1860, 23.3024, 97.7254



20.5993, 10.2918, 95.5079



17.7382, 18.8479, 22.9531



13.4115, 11.7326, 50.9923



1.4148, 1.3603, 5.0013



# Previews

## White Background



This preview shows how the XYZ color 53.5589, 44.9417, 8.9837 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 53.5589, 44.9417, 8.9837 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 53.5589, 44.9417, 8.9837**

## **Background**



This preview shows how black text looks on a background with the XYZ color 53.5589, 44.9417, 8.9837.



This preview shows how white text looks on a background with the XYZ color 53.5589, 44.9417,



# 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

53.5589, 44.9417, 8.9837

### Protanopia

41.1472, 45.3554, 10.4567

### Deuteranopia

45.8997, 44.9465, 8.7390



## Tritanopia

58.0015, 44.9084, 37.9589

# Trichromacy



## Original Color

53.5589, 44.9417, 8.9837

## Protanomaly

45.0713, 44.7738, 9.8811

## Deuteranomaly

48.5603, 44.9484, 8.8058

## Tritanomaly

55.6364, 44.7251, 23.1532

# Monochromacy



## Original Color

53.5589, 44.9417, 8.9837

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

42.2273, 41.5539, 26.5640

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.5589, 44.9417, 8.9837 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, 155, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 155, 51)  
}
```

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, 155, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 155, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 53.5589, 44.9417, 8.9837 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, 155, 51) }
```



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

```
.border{ border-color:rgb(255, 155, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 155, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 155, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 155, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 155,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 53.5589, 44.9417, 8.9837 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 155, 51) }
```

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

```
.background{ background-color: rgb(255,  
155, 51) }
```

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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