

# Converting Colors

XYZ(52.3763, 45.3384, 9.7982)

Have a look what the booklet for  
XYZ(52.3763, 45.3384, 9.7982)  
contains.

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# Color

**XYZ(52.2036, 45.2314,  
9.8500)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F99F39
RGB	249, 159, 57
RGB Percent	98%, 62%, 22%
CMY	0.0235, 0.3764, 0.7765
CMYK	0.00, 0.36, 0.77, 0.02
HSL	32°, 94%, 60%
HSV	32°, 77%, 98%
XYZ	52.2036, 45.2314, 9.8500
YIQ	174.2820, 86.3820, -12.6420

# Conversions

## Conversions Part 2

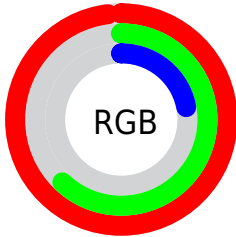
Format	Color
R <sub>Y</sub> B	226, 249, 57
Decimal	16359225
CIE Lab	73.04, 25.66, 63.74
CIE LCh	73, 68.714, 68.071
Yxy	45.2314, 0.4866, 0.4216
Android (android.graphics.Color)	4294549305 (0xFFFF99F39)
YUV	174.2820, -57.8200, 65.5277
Hunter-Lab	67.2543, 20.8589, 38.3944

# Details

The XYZ color **52.2036, 45.2314, 9.8500** 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 **29.2194, 28.5756, 93.5976**, and the grayscale version is **40.6355, 42.7517, 46.5566**.

A 20% lighter version of the original color is **68.1558, 70.5008, 25.0547**, and **25.7512, 21.0802, 2.7116** is the 20% darker color. If you saturate the color by 10%, you get **49.8148, 41.2165, 6.7039**, and if you desaturate by 10%, it is **55.0882, 49.7517, 14.6629**.

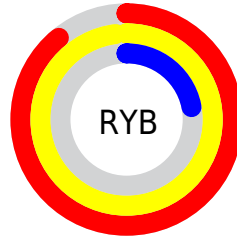
# Distribution



Red (98%)

Green (62%)

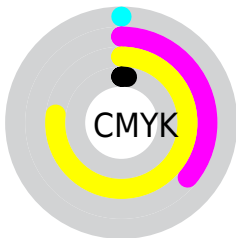
Blue (22%)



Red (89%)

Yellow (98%)

Blue (22%)

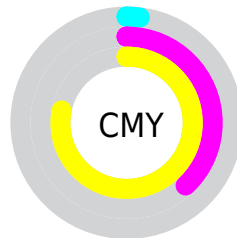


Cyan (0%)

Magenta (36%)

Yellow (77%)

Black (2%)



Cyan (2%)

Magenta (38%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.2036, 45.2314, 9.8500 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 52.2036, 45.2314, 9.8500 by changing the saturation by 10% instead.




 52.2036, 45.2314,  
9.8500


 52.2036, 45.2314,  
9.8500


385.5332,  
367.7099, 200.0439


 37.3923, 31.6397,  
5.1953

 92.6039, 83.0675,  
26.1164


 25.6865, 21.0865,  
2.3016


 118.9236,  
108.0808, 38.5651


 16.7207, 13.1872,  
0.7321


 149.8102,  
137.6701, 54.4490

 10.1296, 7.5576,  
0.0000

 185.6289,  
172.2197, 74.1865

 5.5479, 3.8132,  
0.0000

 226.7453,  
212.1141, 98.1962

 2.6102, 1.5696,  
0.0000

 273.5245,

 0.9512, 0.3370,

257.7377, 126.8967

0.0000

326.3320,  
309.4748, 160.7064

■ 0.0000, 0.0000,  
0.0000

■ 52.2036, 45.2314,  
9.8500

■ 52.2036, 45.2314,  
9.8500

■ 49.8148, 41.2165,  
6.7039

■ 55.0882, 49.7517,  
14.6629

■ 47.8632, 37.6694,  
4.9551


■ 58.5097, 54.7961,  
21.3486


■ 47.3571, 36.7205,  
4.5918


■ 62.5075, 60.3900,  
30.0854

■ 67.1157, 66.5545,  
41.0298

■ 72.3653, 73.3093,  
54.3232

 78.2849, 80.6727,  
70.0948

 84.9013, 88.6621,  
88.4645

 92.0452, 97.2167,  
108.5211

 92.8767, 98.8796,  
108.7983

# Harmonies

## Analogous

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



63.8510, 45.2314, 18.6908



52.2036, 45.2314, 9.8500



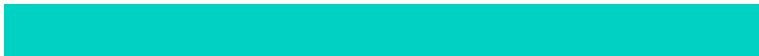
39.8300, 45.2314, 8.5042

# Triad

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



52.2036, 45.2314, 9.8500



23.9426, 45.2314, 59.1296



58.8591, 45.2314, 121.8063

# Complementary

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



52.2036, 45.2314, 9.8500



29.2194, 28.5756, 93.5976

# 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.



46.3152, 45.2314, 148.0227



52.2036, 45.2314, 9.8500



27.2551, 45.2314, 102.3165

# Square

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



52.2036, 45.2314, 9.8500



24.9319, 45.2314, 28.4513



34.9317, 45.2314, 139.5879



68.1649, 45.2314, 78.3032



# Rectangle

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



52.2036, 45.2314, 9.8500



33.0153, 45.2314, 10.9101



34.9317, 45.2314, 139.5879



54.7977, 45.2314, 133.6758

# Sweetspot

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



52.2046, 45.2337, 9.8508



78.8524, 80.4788, 63.8117



46.0190, 25.2618, 31.2209



16.4091, 16.6378, 12.4260



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.



52.2046, 45.2337, 9.8508



51.2975, 41.2022, 5.8150



72.5498, 87.6030, 16.9566



18.0081, 18.7521, 18.1328



25.4934, 19.9434, 2.5058



2.4673, 2.0594, 0.2675



# Inverse Universe

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



29.2194, 28.5756, 93.5976



26.1478, 23.0495, 97.6786



20.4379, 10.7331, 90.6165



16.9538, 17.9845, 21.9631



12.6793, 10.7142, 49.3733



1.2794, 1.2025, 4.6078



# Previews

## White Background



This preview shows how the XYZ color 52.2036, 45.2314, 9.8500 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 52.2036, 45.2314, 9.8500 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 52.2036, 45.2314, 9.8500**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.2036, 45.2314, 9.8500.



This preview shows how white text looks on a background with the XYZ color 52.2036, 45.2314,



# 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

52.2036, 45.2314, 9.8500

### Protanopia

41.3059, 45.4189, 11.2923

### Deuteranopia

46.2569, 45.3904, 9.6914



## Tritanopia

58.3326, 45.2930, 38.9257

# Trichromacy



## Original Color

52.2036, 45.2314, 9.8500

## Protanomaly

44.5083, 44.7474, 10.7062

## Deuteranomaly

48.4163, 45.3962, 9.7006

## Tritanomaly

55.4744, 45.0952, 24.5193

# Monochromacy



## Original Color

52.2036, 45.2314, 9.8500

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

42.3721, 42.4321, 27.4297

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.2036, 45.2314, 9.8500 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(249, 159, 57)` looks like.

```
.text, #text, p{  
    color:rgb(249, 159, 57)  
}
```

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(249, 159, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 159, 57) }
```

## Border

The CSS property to change the border of an element to XYZ 52.2036, 45.2314, 9.8500 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(249, 159, 57) }
```



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

```
.border{ border-color:rgb(249, 159, 57) }
```

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

Here you see how a box with a 4 pixel rgb(249, 159, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 159, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 159, 57);  
box-shadow:4px 4px 4px 4px rgb(249, 159,  
57) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.2036, 45.2314, 9.8500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 159, 57) }
```

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

```
.background{ background-color: rgb(249,  
159, 57) }
```

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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