

# Converting Colors

XYZ(59.1006, 46.8988, 12.3541)

Have a look what the booklet for  
XYZ(59.1006, 46.8988, 12.3541)  
contains.

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# **Color**

**XYZ(53.7043, 44.2109,  
12.1816)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF984A
RGB	255, 152, 74
RGB Percent	100%, 60%, 29%
CMY	0.0000, 0.4039, 0.7098
CMYK	0.00, 0.40, 0.71, 0.00
HSL	26°, 100%, 65%
HSV	26°, 71%, 100%
XYZ	53.7043, 44.2109, 12.1816
YIQ	173.9050, 86.4260, -2.4220

# Conversions

## Conversions Part 2

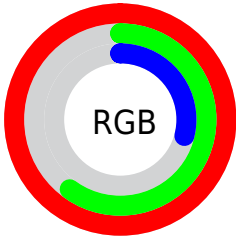
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 211, 74</a>
Decimal	<a href="#">16750666</a>
CIELab	<a href="#">72.37, 32.46, 55.99</a>
CIElCh	<a href="#">72, 64.717, 59.900</a>
Yxy	<a href="#">44.2109, 0.4878, 0.4016</a>
Android (android.graphics.Color)	<a href="#">4294940746 (0xFFFF984A)</a>
YUV	<a href="#">173.9050, -49.2532, 71.1203</a>
Hunter-Lab	<a href="#">66.4913, 27.8128, 35.6816</a>

# Details

The XYZ color **53.7043, 44.2109, 12.1816** 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 **36.5951, 40.1179, 100.4219**, and the grayscale version is **40.3984, 42.5023, 46.2850**.

A 20% lighter version of the original color is **67.3187, 67.3920, 29.1985**, and **26.6758, 20.5023, 3.2132** is the 20% darker color. If you saturate the color by 10%, you get **50.8002, 39.5105, 7.7998**, and if you desaturate by 10%, it is **57.2465, 49.6314, 18.4933**.

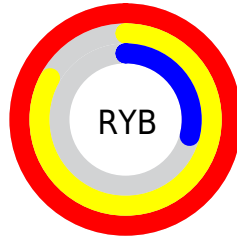
# Distribution



Red (100%)

Green (60%)

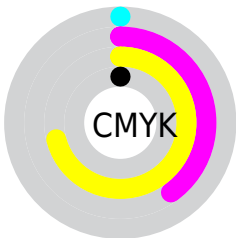
Blue (29%)



Red (100%)

Yellow (83%)

Blue (29%)

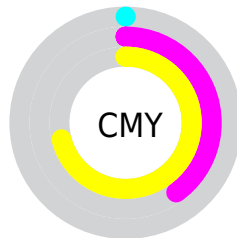


Cyan (0%)

Magenta (40%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (40%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.7043, 44.2109, 12.1816 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 53.7043, 44.2109, 12.1816 by changing the saturation by 10% instead.





 53.7043, 44.2109,  
12.1816


 53.7043, 44.2109,  
12.1816


391.1982,  
363.5682, 216.6243


 38.5950, 30.8363,  
6.7434


 94.7994, 81.5350,  
30.4948


 26.6241, 20.4743,  
3.2262


 121.5159,  
106.2533, 44.2068


 17.4263, 12.7403,  
1.2112


 152.8322,  
135.5217, 61.5140

 10.6361, 7.2499,  
0.0000

 189.1137,  
169.7246, 82.8347

 5.8882, 3.6189,  
0.0000

 230.7257,  
209.2462, 108.5875

 2.8172, 1.4627,  
0.0000

278.0335,

 1.0578, 0.2623,

254.4711, 139.1910

0.0000

331.4026,  
305.7837, 175.0638

■ 0.0000, 0.0000,  
0.0000

■ 53.7043, 44.2109,  
12.1816

■ 53.7043, 44.2109,  
12.1816

■ 50.8002, 39.5105,  
7.7998

■ 57.2465, 49.6314,  
18.4933

■ 48.4758, 35.4845,  
5.1050

■ 61.4711, 55.7996,  
26.9333

■ 46.8047, 32.3898,  
3.7850

■ 66.4211, 62.7497,  
37.6778

■ 72.1349, 70.5114,  
50.8835

■ 78.6474, 79.1123,  
66.6935

85.9916, 88.5789,  
85.2397

94.1982, 98.9362,  
106.6448

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



63.4583, 44.2109, 23.5777



53.7043, 44.2109, 12.1816



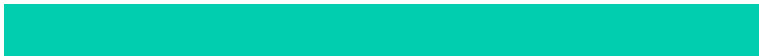
42.0586, 44.2109, 9.1628

# Triad

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



53.7043, 44.2109, 12.1816



24.0354, 44.2109, 48.0309



53.6279, 44.2109, 123.3002

# Complementary

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



53.7043, 44.2109, 12.1816



36.5951, 40.1179, 100.4219

# 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.



41.9837, 44.2109, 139.2250



53.7043, 44.2109, 12.1816



26.0538, 44.2109, 85.6477

# Square

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



53.7043, 44.2109, 12.1816



26.0810, 44.2109, 23.4624



32.1686, 44.2109, 123.0994



63.4090, 44.2109, 85.9208



# Rectangle

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



53.7043, 44.2109, 12.1816



35.1442, 44.2109, 10.4290



32.1686, 44.2109, 123.0994



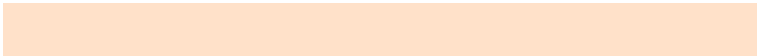
49.7413, 44.2109, 131.9215

# Sweetspot

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



53.7053, 44.2132, 12.1824



78.6336, 79.0942, 66.6586



51.8846, 29.4361, 45.9052



16.4285, 16.4029, 13.2762



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.



53.7053, 44.2132, 12.1824



49.7996, 37.8130, 6.5289



73.6113, 84.0252, 18.8177



18.6532, 19.2745, 18.8816



24.5981, 17.2075, 2.0249



2.5010, 1.8874, 0.2325



# Inverse Universe

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



36.5951, 40.1179, 100.4219



31.7061, 33.3320, 99.3704



24.4536, 15.8349, 96.3748



17.8610, 19.0936, 22.9940



14.8816, 14.6728, 51.4824



1.5576, 1.6458, 5.0489



# Previews

## White Background



This preview shows how the XYZ color 53.7043, 44.2109, 12.1816 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 53.7043, 44.2109, 12.1816 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 53.7043, 44.2109, 12.1816**

## **Background**



This preview shows how black text looks on a background with the XYZ color 53.7043, 44.2109, 12.1816.



This preview shows how white text looks on a background with the XYZ color 53.7043, 44.2109,



# 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

53.7043, 44.2109, 12.1816

### Protanopia

40.4693, 44.3203, 14.4044

### Deuteranopia

45.0809, 44.1778, 11.7814



## Tritanopia

57.4353, 44.1843, 36.5116

# Trichromacy



## Original Color

53.7043, 44.2109, 12.1816

## Protanomaly

44.5127, 43.8459, 13.5142

## Deuteranomaly

47.8388, 43.9730, 11.9275

## Tritanomaly

55.5958, 43.9462, 25.2909

# Monochromacy



## Original Color

53.7043, 44.2109, 12.1816

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

42.8523, 41.8039, 29.8552

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.7043, 44.2109, 12.1816 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, 152, 74)` looks like.

```
.text, #text, p{  
    color:rgb(255, 152, 74)  
}
```

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, 152, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 152, 74) }
```

## Border

The CSS property to change the border of an element to XYZ 53.7043, 44.2109, 12.1816 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, 152, 74) }
```



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

```
.border{ border-color:rgb(255, 152, 74) }
```

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

Here you see how a box with a 4 pixel rgb(255, 152, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 152, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 152, 74);  
box-shadow:4px 4px 4px 4px rgb(255, 152,  
74) }
```

# Background

The CSS property to change the background color of an element to XYZ 53.7043, 44.2109, 12.1816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 152, 74) }
```

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

```
.background{ background-color: rgb(255,  
152, 74) }
```

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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