

# Converting Colors

XYZ(50.8837, 44.6426, 5.9350)

Have a look what the booklet for  
XYZ(50.8837, 44.6426, 5.9350)  
contains.

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# **Color**

**XYZ(50.7559, 44.5704,  
5.9278)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F79F00
RGB	247, 159, 0
RGB Percent	97%, 62%, 0%
CMY	0.0314, 0.3764, 0.9999
CMYK	0.00, 0.36, 1.00, 0.03
HSL	39°, 100%, 48%
HSV	39°, 100%, 97%
XYZ	50.7559, 44.5704, 5.9278
YIQ	167.1860, 103.4870, -30.7930

# Conversions

## Conversions Part 2

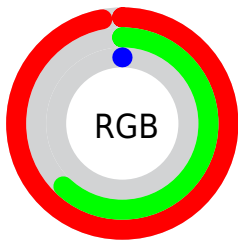
Format	Color
<a href="#">RYB</a>	<a href="#">137, 247, 0</a>
Decimal	<a href="#">16228096</a>
CIELab	<a href="#">72.61, 23.72, 76.97</a>
CIELCh	<a href="#">73, 80.544, 72.873</a>
Yxy	<a href="#">44.5704, 0.5013, 0.4402</a>
Android (android.graphics.Color)	<a href="#">4294418176</a> ( <a href="#">0xFFFF79F00</a> )
YUV	<a href="#">167.1860, -82.4227, 69.9969</a>
Hunter-Lab	<a href="#">66.7611, 18.8749, 41.4683</a>

# Details

The XYZ color **50.7559, 44.5704, 5.9278** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **20.2788, 13.6959, 89.5698**, and the grayscale version is **37.1775, 39.1136, 42.5947**.

A 20% lighter version of the original color is **66.6617, 69.9032, 17.1869**, and **25.0249, 20.7057, 2.6777** is the 20% darker color. If you saturate the color by 10%, you get **50.7559, 44.5710, 5.9279**, and if you desaturate by 10%, it is **52.4968, 47.7769, 7.3586**.

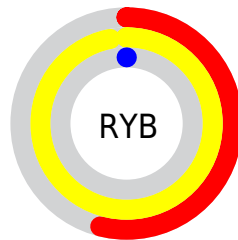
# Distribution



Red (97%)

Green (62%)

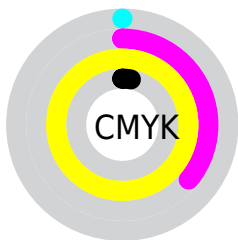
Blue (0%)



Red (54%)

Yellow (97%)

Blue (0%)

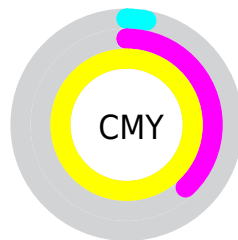


Cyan (0%)

Magenta (36%)

Yellow (100%)

Black (3%)



Cyan (3%)

Magenta (38%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.7559, 44.5704, 5.9278 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 50.7559, 44.5704, 5.9278 by changing the saturation by 10% instead.



50.7559, 44.5704,  
5.9278

50.7559, 44.5704,  
5.9278

380.0180,  
365.0309, 167.7087

36.2346, 31.1192,  
2.7331

90.4790, 82.0754,  
18.2559

24.7864, 20.6896,  
0.9600

116.4115,  
106.8979, 28.2265

16.0459, 12.8973,  
0.0000

146.8785,  
136.2797, 41.2927

9.6477, 7.3579,  
0.0000

182.2453,  
170.6051, 57.8733

5.2265, 3.6869,  
0.0000

222.8773,  
210.2585, 78.3866

2.4169, 1.5000,  
0.0000

269.1399,

0.8535, 0.2887,

255.6244, 103.2512

0.0000

321.3983,  
307.0870, 132.8858

0.0000, 0.0000,  
0.0000

50.7559, 44.5704,  
5.9278

50.7559, 44.5704,  
5.9278

50.7559, 44.5710,  
5.9279

52.4968, 47.7769,  
7.3586

54.5651, 51.2883,  
9.9755

57.0314, 55.1380,  
14.1355

59.9383, 59.3466,  
20.0537

63.3221, 63.9315,  
27.9105

67.2145, 68.9086,  
37.8638

71.6442, 74.2923,  
50.0551

76.6374, 80.0963,  
64.6135

82.2184, 86.3329,  
81.6581

# Harmonies

## Analogous

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



65.1964, 44.5704, 12.7994



50.7559, 44.5704, 5.9278



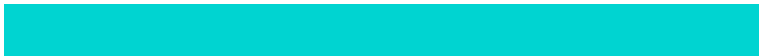
36.6680, 44.5704, 5.5721

# Triad

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



50.7559, 44.5704, 5.9278



21.2387, 44.5704, 67.7170



63.3390, 44.5704, 129.3152

# Complementary

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



50.7559, 44.5704, 5.9278



20.2788, 13.6959, 89.5698

# 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.



48.6187, 44.5704, 168.4035



50.7559, 44.5704, 5.9278



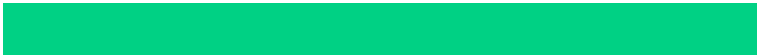
25.6005, 44.5704, 121.7245

# Square

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



50.7559, 44.5704, 5.9278



21.5653, 44.5704, 29.2533



34.9501, 44.5704, 165.0458



73.4838, 44.5704, 74.8250



# Rectangle

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



50.7559, 44.5704, 5.9278



29.4174, 44.5704, 8.3957



34.9501, 44.5704, 165.0458



58.6384, 44.5704, 145.7536

# Sweetspot

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



50.7569, 44.5727, 5.9286



76.9997, 79.8415, 53.7358



40.2277, 20.5223, 11.6427



16.0354, 16.5547, 10.2533



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.



50.7569, 44.5727, 5.9286



54.5428, 47.8655, 6.3643



61.0119, 80.8274, 12.3860



17.3891, 18.2622, 17.4060



26.9824, 23.8503, 3.1814



2.4683, 2.2898, 0.3119



# Inverse Universe

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



20.2788, 13.6959, 89.5698



21.7781, 14.6761, 96.2927



17.4140, 7.0381, 88.4357



16.0642, 16.8928, 20.9565



10.8458, 7.4853, 47.4112



1.0466, 0.8446, 4.1981



# Previews

## White Background



This preview shows how the XYZ color 50.7559, 44.5704, 5.9278 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 50.7559, 44.5704, 5.9278 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 50.7559, 44.5704, 5.9278**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.7559, 44.5704, 5.9278.



This preview shows how white text looks on a background with the XYZ color 50.7559, 44.5704,



# 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

50.7559, 44.5704, 5.9278

### Protanopia

40.3087, 44.6982, 7.0334

### Deuteranopia

45.5520, 44.5447, 6.1971



## Tritanopia

57.3559, 44.5657, 38.3799

# Trichromacy



## Original Color

50.7559, 44.5704, 5.9278

## Protanomaly

43.7264, 44.4346, 6.5887

## Deuteranomaly

47.3868, 44.4027, 6.0730

## Tritanomaly

53.3609, 43.9053, 17.9741

# Monochromacy



## Original Color

50.7559, 44.5704, 5.9278

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

38.6419, 39.3273, 19.1899

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.7559, 44.5704, 5.9278 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(247, 159, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 159, 0)  
}
```

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(247, 159, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 159, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 50.7559, 44.5704, 5.9278 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(247, 159, 0) }
```



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

```
.border{ border-color:rgb(247, 159, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 159, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 159, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 159, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 159,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.7559, 44.5704, 5.9278 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 159, 0) }
```

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

```
.background{ background-color: rgb(247,  
159, 0) }
```

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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