

# Converting Colors

XYZ(53.0951, 44.9701, 5.8817)

Have a look what the booklet for  
XYZ(53.0951, 44.9701, 5.8817)  
contains.

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# Color

**XYZ(53.1285, 45.0369,  
5.8928)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9C00
RGB	255, 156, 0
RGB Percent	100%, 61%, 0%
CMY	0.0000, 0.3882, 0.9999
CMYK	0.00, 0.39, 1.00, 0.00
HSL	37°, 100%, 50%
HSV	37°, 100%, 100%
XYZ	53.1285, 45.0369, 5.8928
YIQ	167.8170, 109.0800, -27.5280

# Conversions

## Conversions Part 2

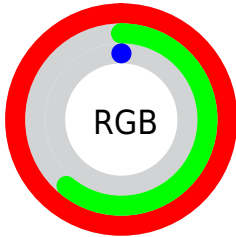
<b>Format</b>	<b>Color</b>
<b>RYB</b>	162, 255, 0
Decimal	16751616
CIELab	72.92, 28.62, 77.65
CIELCh	73, 82.757, 69.770
Yxy	45.0369, 0.5106, 0.4328
Android (android.graphics.Color)	4294941696 (0xFFFF9C00)
YUV	167.8170, -82.7338, 76.4595
Hunter-Lab	67.1095, 23.8711, 41.7705

# Details

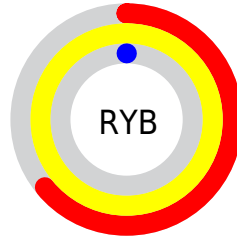
The XYZ color **53.1285, 45.0369, 5.8928** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **22.5124, 16.1448, 96.5368**, and the grayscale version is **37.4873, 39.4395, 42.9496**.

A 20% lighter version of the original color is **65.9094, 68.3986, 16.9362**, and **26.4362, 20.9770, 2.6556** is the 20% darker color. If you saturate the color by 10%, you get **53.1285, 45.0374, 5.8929**, and if you desaturate by 10%, it is **55.0401, 48.5709, 7.4232**.

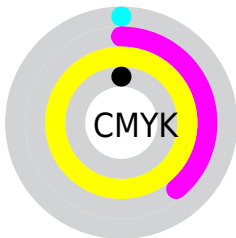
# Distribution



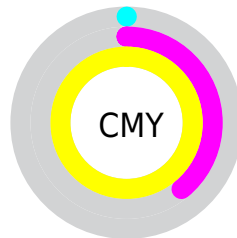
- Red (100%)
- Green (61%)
- Blue (0%)



- Red (64%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (39%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (39%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.1285, 45.0369, 5.8928 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 53.1285, 45.0369, 5.8928 by changing the saturation by 10% instead.





 53.1285, 45.0369,  
5.8928

 53.1285, 45.0369,  
5.8928


389.0307,  
366.9230, 167.3833


 38.1333, 31.4865,  
2.7123


 93.9578, 82.7758,  
18.1818

 26.2638, 20.9696,  
0.9496


 120.5226,  
107.7330, 28.1273


 17.1548, 13.1018,  
0.0000


 151.6747,  
137.2614, 41.1650

 10.4409, 7.4987,  
0.0000

 187.7793,  
171.7452, 57.7132

 5.7568, 3.7759,  
0.0000

 229.2019,  
211.5689, 78.1906

 2.7370, 1.5490,  
0.0000

 276.3077,

 1.0163, 0.3228,

257.1168, 103.0158

0.0000

329.4622,  
308.7734, 132.6071

0.0000, 0.0000,  
0.0000

53.1285, 45.0369,  
5.8928

53.1285, 45.0369,  
5.8928

53.1285, 45.0374,  
5.8929

55.0401, 48.5709,  
7.4232

57.3250, 52.4739,  
10.2407

60.0593, 56.7831,  
14.7262

63.2899, 61.5219,  
21.1131

67.0566, 66.7107,  
29.5968

71.3945, 72.3680,  
40.3483

76.3351, 78.5106,  
53.5210

81.9075, 85.1543,  
69.2545

88.1385, 92.3140,  
87.6779

# Harmonies

## Analogous

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



67.8526, 45.0369, 13.7592



53.1285, 45.0369, 5.8928



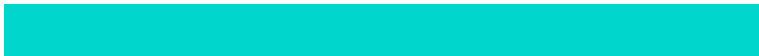
38.2710, 45.0369, 5.0266

# Triad

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



53.1285, 45.0369, 5.8928



20.8816, 45.0369, 63.7862



63.1082, 45.0369, 138.9070

# Complementary

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



53.1285, 45.0369, 5.8928



22.5124, 16.1448, 96.5368

# 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.



47.6863, 45.0369, 176.3203



53.1285, 45.0369, 5.8928



24.8345, 45.0369, 119.4034

# Square

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



53.1285, 45.0369, 5.8928



21.7029, 45.0369, 26.3838



33.9158, 45.0369, 167.6712



74.4529, 45.0369, 81.9433



# Rectangle

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



53.1285, 45.0369, 5.8928



30.4613, 45.0369, 7.3593



33.9158, 45.0369, 167.6712



58.1034, 45.0369, 155.3186

# Sweetspot

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



53.1295, 45.0393, 5.8936



76.3328, 78.5076, 53.5135



43.6385, 22.2196, 14.5613



15.8764, 16.2367, 10.2003



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.



53.1295, 45.0393, 5.8936



53.1289, 45.0377, 5.8930



68.2330, 88.2601, 13.4400



18.9345, 19.8371, 18.9753



27.9103, 23.8318, 3.1290



2.8237, 2.5327, 0.3400



# Inverse Universe

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



22.5124, 16.1448, 96.5368



22.5116, 16.1432, 96.5372



18.4637, 7.4335, 95.0688



17.5813, 18.5342, 22.9008



11.8969, 8.7034, 50.4875



1.2606, 1.0519, 4.9499



# Previews

## White Background



This preview shows how the XYZ color 53.1285, 45.0369, 5.8928 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 53.1285, 45.0369, 5.8928 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 53.1285, 45.0369, 5.8928**

## **Background**



This preview shows how black text looks on a background with the XYZ color 53.1285, 45.0369, 5.8928.



This preview shows how white text looks on a background with the XYZ color 53.1285, 45.0369,



# 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

53.1285, 45.0369, 5.8928

### Protanopia

40.7959, 45.2461, 7.1993

### Deuteranopia

46.0533, 45.0803, 6.2741



## Tritanopia

58.0015, 44.9084, 37.9589

# Trichromacy



## Original Color

53.1285, 45.0369, 5.8928

## Protanomaly

44.4481, 44.5245, 6.5993

## Deuteranomaly

48.3802, 44.9148, 6.1195

## Tritanomaly

54.6556, 44.3328, 17.9883

# Monochromacy



## Original Color

53.1285, 45.0369, 5.8928

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

39.7487, 39.8918, 19.5148

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.1285, 45.0369, 5.8928 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, 156, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 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(255, 156, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 53.1285, 45.0369, 5.8928 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, 156, 0) }
```



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

```
.border{ border-color:rgb(255, 156, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 156, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 53.1285, 45.0369, 5.8928 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 0) }
```

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

```
.background{ background-color: rgb(255,  
156, 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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