

Converting Colors

CIELCh(58, 89.870, 49.297)

Have a look what the booklet for
CIELCh(58, 89.870, 49.297) contains.

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Color

CIELCh(58, 89.976, 49.241)

Conversions

Conversions Part 1

Format	Color
Hex	F55500
RGB	245, 85, 0
RGB Percent	96%, 33%, 0%
CMY	0.0386, 0.6661, 0.9992
CMYK	0.00, 0.65, 1.00, 0.04
HSL	21°, 100%, 48%
HSV	21°, 100%, 96%
XYZ	40.9732, 25.9610, 2.8572
YIQ	123.1500, 122.6450, 7.4850

Conversions

Conversions Part 2

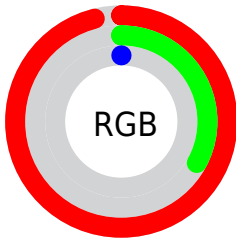
Format	Color
R_{YB}	245, 130, 0
Decimal	16078080
CIE _{Lab}	58.00, 58.74, 68.15
CIE _{LCh}	58, 89.976, 49.241
Yxy	25.9610, 0.5871, 0.3720
Android (android.graphics.Color)	4294268160 (0xFFFF55500)
YUV	123.1500, -60.7129, 106.8625
Hunter-Lab	50.9519, 54.3757, 32.3415

Details

The CIELCh color **58, 89.976, 49.241** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **63, 52.109, 265.271**, and the grayscale version is **52, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 68.819, 56.796**, and **38, 78.875, 41.299** is the 20% darker color. If you saturate the color by 10%, you get **58, 90.030, 49.230**, and if you desaturate by 10%, it is **61, 82.864, 51.022**.

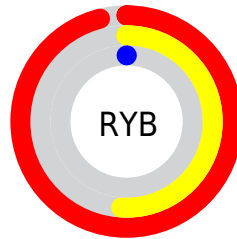
Distribution



Red (96%)

Green (33%)

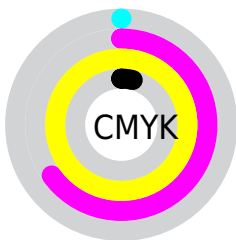
Blue (0%)



Red (96%)

Yellow (51%)

Blue (0%)

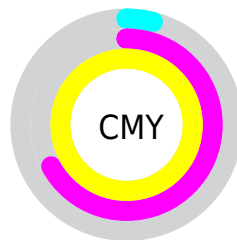


Cyan (0%)

Magenta (65%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (67%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 89.976, 49.241 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 CIELCh color 58, 89.976, 49.241 by changing the saturation by 10% instead.

58, 89.976, 49.241

58, 89.976, 49.241

100, 89.976,
49.241

48, 89.976, 49.241

78, 89.976, 49.241

38, 89.976, 49.241

88, 89.976, 49.241

28, 89.976, 49.241

98, 89.976, 49.241

18, 89.976, 49.241

8, 89.976, 49.241

0, 89.976, 49.241

58, 89.976, 49.241

58, 89.976, 49.241

58, 90.030, 49.230

61, 82.864, 51.022

64, 73.447, 52.040

67, 62.942, 52.632

71, 52.351, 53.124

75, 42.138, 53.650

79, 32.494, 54.253

83, 23.473, 54.935

88, 15.067, 55.681

92, 7.239, 56.452

Harmonies

Complementary

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



58, 89.976, 49.241



63, 52.109, 265.271

Rectangle

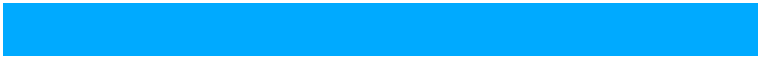
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



58, 89.976, 49.241



58, 89.976, 99.241



58, 89.976, 229.241



58, 89.976, 279.241

Sweetspot

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



58, 89.973, 49.243



86, 24.315, 54.925



54, 87.495, 347.858



44, 16.849, 54.628



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



58, 89.973, 49.243



60, 92.825, 49.155



83, 84.157, 90.475



49, 4.138, 56.484



45, 72.768, 49.852



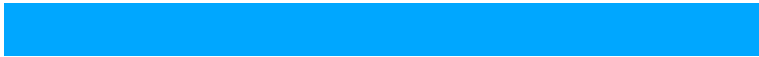
12, 25.530, 46.637

Inverse Universe

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



63, 52.109, 265.271



66, 53.793, 265.432



34, 118.989, 303.817



49, 3.954, 238.347



49, 41.934, 264.347



14, 17.216, 256.320

Previews

White Background



This preview shows how the CIELCh color 58, 89.976, 49.241 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIELCh color 58, 89.976, 49.241 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 58, 89.976, 49.241

Background



This preview shows how black text looks on a background with the CIELCh color 58, 89.976, 49.241.



This preview shows how white text looks on a background with the CIELCh color 58, 89.976, 49.241.

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

58, 89.976, 49.241

Protanopia

58, 57.458, 95.431

Deuteranopia

58, 63.614, 84.009



Tritanopia
58, 72.467, 28.053

Trichromacy



Original Color
58, 89.976, 49.241

Protanomaly
56, 62.939, 71.535

Deuteranomaly
57, 69.553, 67.076

Tritanomaly
58, 79.343, 39.077

Monochromacy



Original Color
58, 89.976, 49.241

Achromatopsia
52, 0.007, 296.813

Achromatomaly
51, 33.157, 53.687

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 58, 89.976, 49.241 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(245, 85, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 85, 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(245, 85, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 85, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 58, 89.976, 49.241 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(245, 85, 0) }
```

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

```
.border{ border-color:rgb(245, 85, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 85, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 85, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 85, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 85, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 58, 89.976, 49.241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 85, 0) }
```

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

```
.background{ background-color: rgb(245, 85,  
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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