

# Converting Colors

CIELCh(57, 93.227, 42.678)

Have a look what the booklet for  
CIELCh(57, 93.227, 42.678) contains.

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# Color

**CIELCh(57, 92.963, 42.659)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FD4217
RGB	253, 66, 23
RGB Percent	99%, 26%, 9%
CMY	0.0068, 0.7401, 0.9089
CMYK	0.00, 0.74, 0.91, 0.01
HSL	11°, 99%, 54%
HSV	11°, 91%, 99%
XYZ	42.7261, 24.9227, 3.3818
YIQ	117.0110, 125.2550, 26.2710

# Conversions

## Conversions Part 2

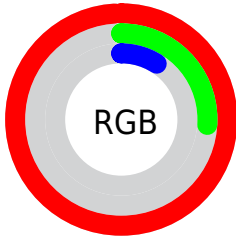
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">253, 76, 23</a>
Decimal	<a href="#">16597527</a>
CIELab	<a href="#">57.00, 68.36, 62.99</a>
CIElCh	<a href="#">57, 92.963, 42.659</a>
Yxy	<a href="#">24.9227, 0.6015, 0.3509</a>
Android (android.graphics.Color)	<a href="#">4294787607 (0xFFFD4217)</a>
YUV	<a href="#">117.0110, -46.3474, 119.2624</a>
Hunter-Lab	<a href="#">49.9226, 65.4040, 30.9295</a>

# Details

The CIELCh color **57, 92.963, 42.659** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **78, 42.801, 230.205**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **67, 67.478, 47.483**, and **39, 82.832, 40.000** is the 20% darker color. If you saturate the color by 10%, you get **55, 99.857, 42.682**, and if you desaturate by 10%, it is **60, 82.541, 41.839**.

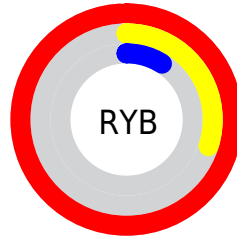
# Distribution



Red (99%)

Green (26%)

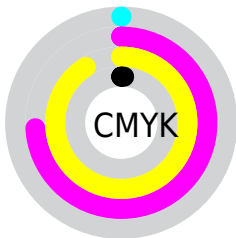
Blue (9%)



Red (99%)

Yellow (30%)

Blue (9%)

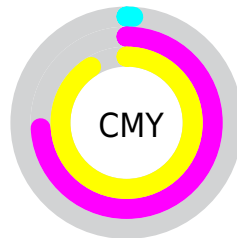


Cyan (0%)

Magenta (74%)

Yellow (91%)

Black (1%)



Cyan (1%)

Magenta (74%)

Yellow (91%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 57, 92.963, 42.659 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 57, 92.963, 42.659 by changing the saturation by 10% instead.



 57, 92.963, 42.659

 57, 92.963, 42.659

 100, 92.963,  
42.659

 47, 92.963, 42.659

 77, 92.963, 42.659

 37, 92.963, 42.659

 87, 92.963, 42.659

 27, 92.963, 42.659

 97, 92.963, 42.659

 17, 92.963, 42.659

 7, 92.963, 42.659

 0, 92.963, 42.659

 57, 92.963, 42.659

 57, 92.963, 42.659

 55, 99.857, 42.682

 60, 82.541, 41.839

 63, 70.773, 40.688

67, 58.875, 39.640

72, 47.389, 38.835

77, 36.555, 38.285

82, 26.466, 37.959

88, 17.139, 37.812

93, 8.542, 37.784

99, 0.623, 36.933

# Harmonies

# Complementary

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



57, 92.963, 42.659



78, 42.801, 230.205

# Rectangle

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



57, 92.963, 42.659



57, 92.963, 92.659



57, 92.963, 222.659



57, 92.963, 272.659

# Sweetspot

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



57, 92.960, 42.661



85, 22.937, 37.885



58, 98.750, 336.460



43, 15.681, 37.950



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



57, 92.960, 42.661



55, 100.385, 42.675



78, 79.724, 78.877



50, 4.487, 37.783



42, 80.415, 43.062



12, 30.170, 36.448





# Inverse Universe

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



78, 42.801, 230.205



77, 43.762, 233.556



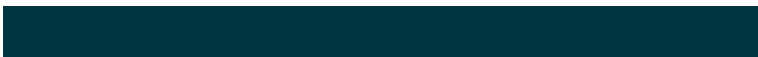
47, 91.911, 295.035



52, 4.224, 218.298



59, 35.208, 232.843



19, 16.133, 227.914



# Previews

## White Background



This preview shows how the CIELCh color 57, 92.963, 42.659 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 57, 92.963, 42.659 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 57, 92.963, 42.659

## Background



This preview shows how black text looks on a background with the CIELCh color 57, 92.963, 42.659.



This preview shows how white text looks on a background with the CIELCh color 57, 92.963, 42.659.

# 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

57, 92.963, 42.659

### Protanopia

57, 51.578, 95.126

### Deuteranopia

57, 62.730, 83.654



**Tritanopia**  
57, 83.600, 32.023



# Trichromacy



**Original Color**  
57, 92.963, 42.659

**Protanomaly**  
54, 58.771, 64.041

**Deuteranomaly**  
55, 69.487, 62.214

**Tritanomaly**  
57, 87.190, 36.815

# Monochromacy



**Original Color**  
57, 92.963, 42.659

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 33.119, 39.004

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 57, 92.963, 42.659 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(253, 66, 23)` looks like.

```
.text, #text, p{  
    color:rgb(253, 66, 23)  
}
```

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(253, 66, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 66, 23) }
```

## Border

The CSS property to change the border of an element to CIELCh 57, 92.963, 42.659 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(253, 66, 23) }
```

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

```
.border{ border-color:rgb(253, 66, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(253, 66, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 66, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 66, 23);  
box-shadow:4px 4px 4px 4px rgb(253, 66,  
23) }
```

# Background

The CSS property to change the background color of an element to CIELCh 57, 92.963, 42.659 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 66, 23) }
```

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

```
.background{ background-color: rgb(253, 66,  
23) }
```

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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