

# Converting Colors

CIELCh(65, 76.467, 50.713)

Have a look what the booklet for  
CIELCh(65, 76.467, 50.713) contains.

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# **Color**

**CIELCh(65, 76.630, 50.649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE7532
RGB	254, 117, 50
RGB Percent	100%, 46%, 20%
CMY	0.0037, 0.5409, 0.8037
CMYK	0.00, 0.54, 0.80, 0.00
HSL	20°, 99%, 60%
HSV	20°, 80%, 100%
XYZ	47.8391, 34.0472, 7.0733
YIQ	150.3250, 103.1590, 8.2070

# Conversions

## Conversions Part 2

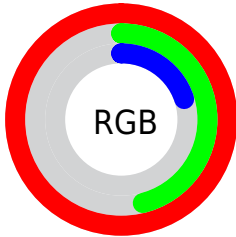
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	254, 150, 50
Decimal	16676146
CIE <sub>Lab</sub>	65.00, 48.59, 59.26
CIE <sub>LCh</sub>	65, 76.630, 50.649
Yxy	34.0472, 0.5378, 0.3827
Android (android.graphics.Color)	4294866226 (0xFFFE7532)
YUV	150.3250, -49.4602, 90.9230
Hunter-Lab	58.3500, 44.2334, 33.6577

# Details

The CIELCh color **65, 76.630, 50.649** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **72, 45.198, 252.640**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **77, 53.800, 63.959**, and **45, 74.331, 49.248** is the 20% darker color. If you saturate the color by 10%, you get **62, 86.405, 49.782**, and if you desaturate by 10%, it is **69, 65.674, 51.082**.

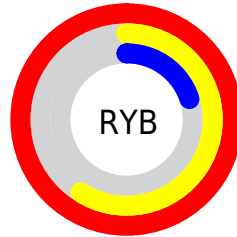
# Distribution



Red (100%)

Green (46%)

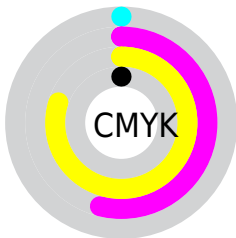
Blue (20%)



Red (100%)

Yellow (59%)

Blue (20%)

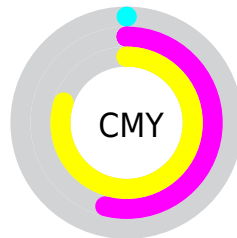


Cyan (0%)

Magenta (54%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (54%)

Yellow (80%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 76.630, 50.649 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 65, 76.630, 50.649 by changing the saturation by 10% instead.



 65, 76.630, 50.649

 65, 76.630, 50.649

 100, 76.630,  
50.649

 55, 76.630, 50.649

 85, 76.630, 50.649

 45, 76.630, 50.649

 95, 76.630, 50.649

 35, 76.630, 50.649

 25, 76.630, 50.649

 15, 76.630, 50.649

 5, 76.630, 50.649

 0, 76.630, 50.649

 65, 76.630, 50.649

 65, 76.630, 50.649

 62, 86.405, 49.782

 69, 65.674, 51.082

59, 93.510, 48.182

72, 54.626, 51.421

76, 43.981, 51.811

81, 33.942, 52.296

85, 24.567, 52.874

90, 15.851, 53.529

95, 7.751, 54.221

100, 0.213, 52.315

100, 0.326,  
201.415

# Harmonies

# Complementary

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



65, 76.630, 50.649



72, 45.198, 252.640

# Rectangle

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



65, 76.630, 50.649



65, 76.630, 100.649



65, 76.630, 230.649



65, 76.630, 280.649

# Sweetspot

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



65, 76.628, 50.652



89, 19.059, 53.279



59, 87.527, 342.800



46, 13.270, 53.047



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



65, 76.628, 50.652



61, 91.054, 48.858



87, 79.292, 91.702



51, 4.279, 54.274



45, 75.053, 48.781



13, 28.196, 46.043



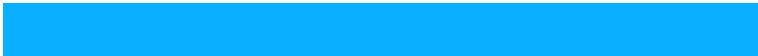


# Inverse Universe

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



72, 45.198, 252.640



68, 50.630, 260.283



45, 97.349, 298.192



51, 4.078, 236.013



51, 41.430, 261.371



16, 17.858, 254.163



# Previews

## White Background



This preview shows how the CIELCh color 65, 76.630, 50.649 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 CIELCh color 65, 76.630, 50.649 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](#).

# CIELCh 65, 76.630, 50.649

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 76.630, 50.649.



This preview shows how white text looks on a background with the CIELCh color 65, 76.630, 50.649.

# 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

65, 76.630, 50.649

### Protanopia

65, 51.626, 95.526

### Deuteranopia

65, 61.489, 82.088



**Tritanopia**  
65, 60.313, 23.313



# Trichromacy



**Original Color**  
65, 76.630, 50.649

**Protanomaly**  
64, 55.139, 73.986

**Deuteranomaly**  
64, 64.394, 68.347

**Tritanomaly**  
65, 64.855, 35.577

# Monochromacy



**Original Color**  
65, 76.630, 50.649

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
62, 25.820, 51.947

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 76.630, 50.649 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(254, 117, 50)` looks like.

```
.text, #text, p{  
    color:rgb(254, 117, 50)  
}
```

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(254, 117, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 117, 50) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 76.630, 50.649 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(254, 117, 50) }
```

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

```
.border{ border-color:rgb(254, 117, 50) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 117, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 117, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 117, 50);  
box-shadow:4px 4px 4px 4px rgb(254, 117,  
50) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 76.630, 50.649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 117, 50) }
```

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

```
.background{ background-color: rgb(254,  
117, 50) }
```

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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