

# Converting Colors

CIELCh(65, 80.439, 52.984)

Have a look what the booklet for  
CIELCh(65, 80.439, 52.984) contains.

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# **Color**

**CIELCh(65, 80.739, 52.974)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7525
RGB	255, 117, 37
RGB Percent	100%, 46%, 15%
CMY	0.0007, 0.5417, 0.8555
CMYK	0.00, 0.54, 0.86, 0.00
HSL	22°, 100%, 57%
HSV	22°, 86%, 100%
XYZ	47.8500, 34.0472, 5.7871
YIQ	149.1420, 107.9280, 4.3760

# Conversions

## Conversions Part 2

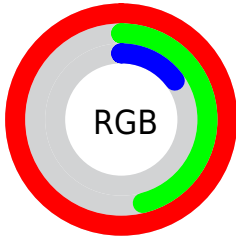
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 163, 37
Decimal	16741669
CIE Lab	65.00, 48.62, 64.46
CIE LCh	65, 80.739, 52.974
Yxy	34.0472, 0.5457, 0.3883
Android (android.graphics.Color)	4294931749 (0xFFFF7525)
YUV	149.1420, -55.2860, 92.8375
Hunter-Lab	58.3500, 44.2670, 34.9647

# Details

The CIELCh color **65, 80.739, 52.974** is a dark color, and the websafe version is hex **FF6600**. The color can be described as middle washed orange. A complement of this color would be **68, 49.907, 261.292**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **77, 57.840, 66.596**, and **45, 74.704, 49.139** is the 20% darker color. If you saturate the color by 10%, you get **62, 88.827, 51.260**, and if you desaturate by 10%, it is **68, 70.591, 53.953**.

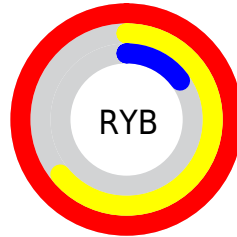
# Distribution



Red (100%)

Green (46%)

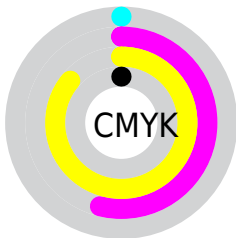
Blue (15%)



Red (100%)

Yellow (64%)

Blue (15%)

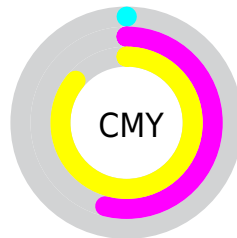


Cyan (0%)

Magenta (54%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (54%)

Yellow (86%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 80.739, 52.974 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, 80.739, 52.974 by changing the saturation by 10% instead.



 65, 80.739, 52.974

 65, 80.739, 52.974

 100, 80.739,  
52.974

 55, 80.739, 52.974

 85, 80.739, 52.974

 45, 80.739, 52.974

 95, 80.739, 52.974

 35, 80.739, 52.974

 25, 80.739, 52.974

 15, 80.739, 52.974

 5, 80.739, 52.974

 0, 80.739, 52.974

 65, 80.739, 52.974

 65, 80.739, 52.974

 62, 88.827, 51.260

 68, 70.591, 53.953

61, 91.718, 50.318

72, 59.802, 54.650

76, 49.138, 55.299

80, 38.939, 55.988

84, 29.333, 56.742

88, 20.346, 57.557

93, 11.956, 58.411

97, 4.119, 59.230

100, 0.062,  
210.130

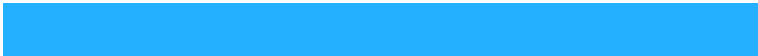
# Harmonies

# Complementary

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



65, 80.739, 52.974



68, 49.907, 261.292

# Rectangle

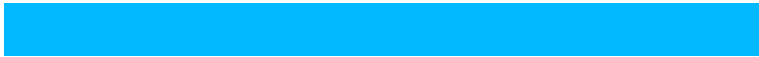
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65, 80.739, 52.974



65, 80.739, 102.974



65, 80.739, 232.974



65, 80.739, 282.974

# Sweetspot

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



65, 80.736, 52.977



88, 20.757, 57.518



58, 87.044, 347.048



45, 14.244, 57.231



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, 80.736, 52.977



61, 91.768, 50.316



90, 84.736, 94.702



51, 4.287, 58.925



46, 73.464, 50.966



14, 27.765, 49.274





# Inverse Universe

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



68, 49.907, 261.292



64, 55.987, 268.651



40, 110.638, 301.550



51, 4.107, 240.929



49, 44.535, 267.680



15, 18.876, 260.412



# Previews

## White Background



This preview shows how the CIELCh color 65, 80.739, 52.974 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, 80.739, 52.974 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, 80.739, 52.974

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 80.739, 52.974.



This preview shows how white text looks on a background with the CIELCh color 65, 80.739, 52.974.

# 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, 80.739, 52.974

### Protanopia

65, 57.403, 95.298

### Deuteranopia

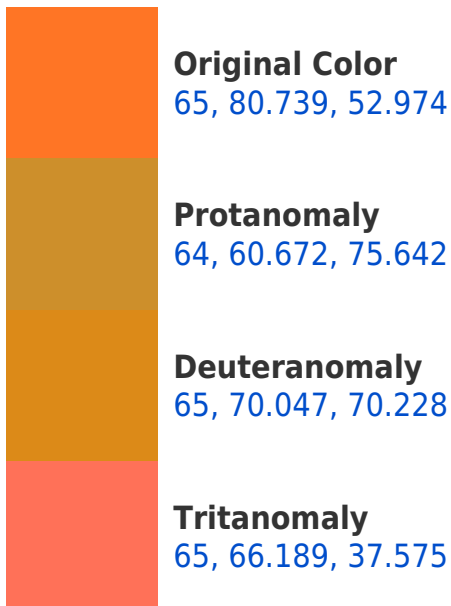
65, 67.347, 82.868



**Tritanopia**  
65, 60.313, 23.313



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 80.739, 52.974 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, 117, 37)` looks like.

```
.text, #text, p{  
    color:rgb(255, 117, 37)  
}
```

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, 117, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 117, 37) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 80.739, 52.974 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, 117, 37) }
```

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

```
.border{ border-color:rgb(255, 117, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 117, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 117, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 117, 37);  
box-shadow:4px 4px 4px 4px rgb(255, 117,  
37) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 80.739, 52.974 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 117, 37) }
```

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

```
.background{ background-color: rgb(255,  
117, 37) }
```

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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