

# Converting Colors

CIELCh(65, 80.976, 51.822)

Have a look what the booklet for  
CIELCh(65, 80.976, 51.822) contains.

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# Color

**CIELCh(65, 80.535, 51.978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7428
RGB	255, 116, 40
RGB Percent	100%, 45%, 16%
CMY	0.0000, 0.5458, 0.8437
CMYK	0.00, 0.55, 0.84, 0.00
HSL	21°, 100%, 58%
HSV	21°, 84%, 100%
XYZ	48.2073, 34.0472, 6.0247
YIQ	148.8970, 107.2400, 5.8320

# Conversions

## Conversions Part 2

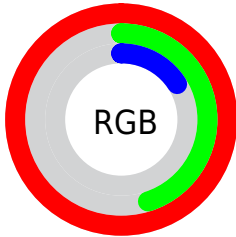
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 158, 40</a>
Decimal	<a href="#">16741416</a>
CIELab	<a href="#">65.00, 49.61, 63.44</a>
CIElCh	<a href="#">65, 80.535, 51.978</a>
Yxy	<a href="#">34.0472, 0.5461, 0.3857</a>
Android (android.graphics.Color)	<a href="#">4294931496</a> ( <a href="#">0xFFFF7428</a> )
YUV	<a href="#">148.8970, -53.6862, 93.0523</a>
Hunter-Lab	<a href="#">58.3500, 45.3599, 34.7232</a>

# Details

The CIELCh color **65, 80.535, 51.978** 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 **69, 48.412, 258.539**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **77, 57.008, 65.522**, and **45, 75.136, 48.582** is the 20% darker color. If you saturate the color by 10%, you get **62, 88.745, 50.636**, and if you desaturate by 10%, it is **68, 69.730, 52.899**.

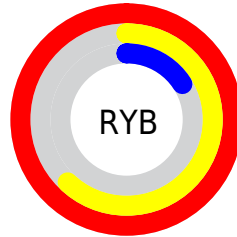
# Distribution



Red (100%)

Green (45%)

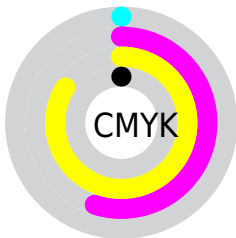
Blue (16%)



Red (100%)

Yellow (62%)

Blue (16%)

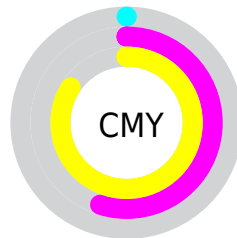


Cyan (0%)

Magenta (55%)

Yellow (84%)

Black (0%)



Cyan (0%)

Magenta (55%)

Yellow (84%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 80.535, 51.978 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, 80.535, 51.978 by changing the saturation by 10% instead.



 65, 80.535, 51.978

 65, 80.535, 51.978

 100, 80.535,  
51.978

 55, 80.535, 51.978

 85, 80.535, 51.978

 45, 80.535, 51.978

 95, 80.535, 51.978

 35, 80.535, 51.978

 25, 80.535, 51.978

 15, 80.535, 51.978

 5, 80.535, 51.978

 0, 80.535, 51.978

 65, 80.535, 51.978

 65, 80.535, 51.978

 62, 88.745, 50.636

 68, 69.730, 52.899

60, 92.495, 49.509

72, 58.804, 53.466

76, 48.085, 54.016

80, 37.879, 54.624

84, 28.294, 55.309

89, 19.346, 56.062

93, 11.009, 56.859

98, 3.233, 57.593

100, 0.012,  
296.813

# Harmonies

# Complementary

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



65, 80.535, 51.978



69, 48.412, 258.539

# Rectangle

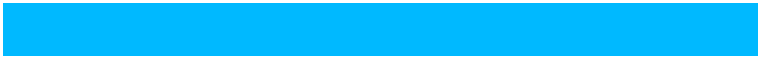
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65, 80.535, 51.978



65, 80.535, 101.978



65, 80.535, 231.978



65, 80.535, 281.978

# Sweetspot

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



65, 80.164, 52.103



88, 19.889, 56.013



58, 87.564, 345.663



46, 13.743, 55.743



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, 80.164, 52.103



60, 92.495, 49.509



89, 83.371, 93.636



51, 4.281, 57.246



46, 74.036, 50.144



14, 27.912, 48.079





# Inverse Universe

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



69, 48.412, 258.539



65, 54.460, 266.460



42, 107.161, 300.666



51, 4.093, 239.159



50, 43.354, 265.484



15, 18.484, 258.216



# Previews

## White Background



This preview shows how the CIELCh color 65, 80.535, 51.978 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, 80.535, 51.978 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, 80.535, 51.978

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 80.535, 51.978.



This preview shows how white text looks on a background with the CIELCh color 65, 80.535, 51.978.

# 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, 80.093, 52.136

### Protanopia

65, 55.865, 95.240

### Deuteranopia

65, 65.939, 83.008



**Tritanopia**  
65, 60.458, 23.813



# Trichromacy



**Original Color**  
65, 80.093, 52.136

**Protanomaly**  
64, 59.248, 75.136

**Deuteranomaly**  
64, 68.550, 70.065

**Tritanomaly**  
65, 65.916, 37.184

# Monochromacy



**Original Color**  
65, 80.093, 52.136

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
61, 27.686, 54.967

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 80.535, 51.978 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, 116, 40)` looks like.

```
.text, #text, p{  
    color:rgb(255, 116, 40)  
}
```

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, 116, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 116, 40) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 80.535, 51.978 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, 116, 40) }
```

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

```
.border{ border-color:rgb(255, 116, 40) }
```

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

Here you see how a box with a 4 pixel rgb(255, 116, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 116, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 116, 40);  
box-shadow:4px 4px 4px 4px rgb(255, 116,  
40) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 80.535, 51.978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 116, 40) }
```

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

```
.background{ background-color: rgb(255,  
116, 40) }
```

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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