

# Converting Colors

CIELCh(65, 41.842, 158.869)

Have a look what the booklet for  
CIELCh(65, 41.842, 158.869)  
contains.

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**Color**

**CIELCh(65, 41.910, 158.683)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50AF81
RGB	80, 175, 129
RGB Percent	31%, 69%, 51%
CMY	0.6854, 0.3129, 0.4933
CMYK	0.54, 0.00, 0.26, 0.31
HSL	151°, 37%, 50%
HSV	151°, 54%, 69%
XYZ	22.6733, 34.0472, 26.2143
YIQ	141.3510, -41.8540, -34.4460

# Conversions

## Conversions Part 2

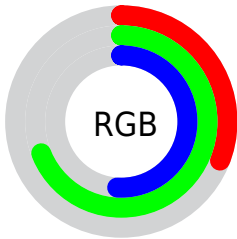
<b>Format</b>	<b>Color</b>
<b>RYB</b>	80, 143, 175
Decimal	5287809
CIELab	65.00, -39.04, 15.24
CIElCh	65, 41.910, 158.683
Yxy	34.0472, 0.2734, 0.4105
Android (android.graphics.Color)	4283477889 (0xFF50AF81)
YUV	141.3510, -6.0890, -53.8048
Hunter-Lab	58.3500, -32.7520, 14.2084

# Details

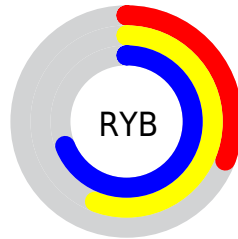
The CIELCh color **65, 41.910, 158.683** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **48, 44.548, 350.559**, and the grayscale version is **59, 0.008, 296.813**.

A 20% lighter version of the original color is **85, 41.785, 158.724**, and **45, 41.936, 158.821** is the 20% darker color. If you saturate the color by 10%, you get **64, 48.413, 157.136**, and if you desaturate by 10%, it is **66, 34.837, 160.049**.

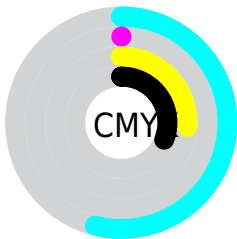
# Distribution



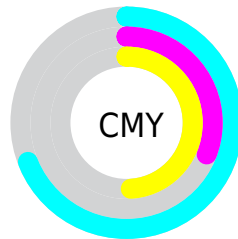
- Red (31%)
- Green (69%)
- Blue (51%)



- Red (31%)
- Yellow (56%)
- Blue (69%)



- Cyan (54%)
- Magenta (0%)
- Yellow (26%)
- Black (31%)




- Cyan (69%)
- Magenta (31%)
- Yellow (49%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 41.910, 158.683 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, 41.910, 158.683 by changing the saturation by 10% instead.




 65, 41.910,  
158.683


 65, 41.910,  
158.683


 100, 41.910,  
158.683

 55, 41.910,  
158.683


 85, 41.910,  
158.683

 45, 41.910,  
158.683

 95, 41.910,  
158.683

 35, 41.910,  
158.683

 25, 41.910,  
158.683

 15, 41.910,  
158.683

 5, 41.910, 158.683

 0, 41.910, 158.683

65, 41.910,  
158.683

65, 41.910,  
158.683

64, 48.413,  
157.136

66, 34.837,  
160.049

64, 54.239,  
155.391

67, 27.319,  
161.261

63, 59.327,  
153.436

68, 19.493,  
162.341

63, 63.681,  
151.285

69, 11.483,  
163.318

63, 65.992,  
150.038

71, 3.401, 164.265

72, 4.664, 344.867

74, 12.641,  
345.644

76, 20.478,  
346.326

■ 78, 28.139,  
346.955

# Harmonies

# Complementary

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



65, 41.910, 158.683



48, 44.548, 350.559

# Rectangle

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



65, 41.910, 158.683



65, 41.910, 208.683



65, 41.910, 338.683



65, 41.910, 28.683

# Sweetspot

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



65, 41.911, 158.682



87, 15.945, 163.124



66, 53.748, 126.629



46, 10.846, 162.931



96, 0.011, 296.813



48, 0.006, 296.813





# Same Dimension

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



65, 41.911, 158.682



81, 60.150, 156.820



66, 29.052, 197.061



36, 4.535, 163.774



55, 58.625, 150.344



6, 10.244, 159.772



# Inverse Universe

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



48, 44.548, 350.559



56, 63.793, 352.763



46, 43.112, 25.904



34, 4.595, 345.227



32, 57.109, 2.707



2, 9.057, 349.641



# Previews

## White Background



This preview shows how the CIE LCh color 65, 41.910, 158.683 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, 41.910, 158.683 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, 41.910, 158.683**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 65, 41.910, 158.683.



This preview shows how white text looks on a background with the CIELCh color 65, 41.910, 158.683.

# 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, 41.910, 158.683

**Protanopia**  
64, 20.421, 94.960

**Deuteranopia**  
65, 14.958, 56.332





**Tritanopia**  
65, 23.537, 217.178

# Trichromacy



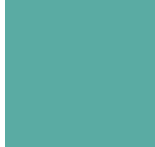
**Original Color**  
65, 41.910, 158.683



**Protanomaly**  
64, 24.802, 134.617



**Deuteranomaly**  
64, 16.286, 131.523



**Tritanomaly**  
65, 27.003, 187.583

# Monochromacy



**Original Color**  
65, 41.910, 158.683



**Achromatopsia**  
59, 0.008, 296.813



**Achromatomaly**  
61, 16.206, 161.752

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 41.910, 158.683 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(80, 175, 129)` looks like.

```
.text, #text, p{  
    color:rgb(80, 175, 129)  
}
```

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(80, 175, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 175, 129) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 41.910, 158.683 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(80, 175, 129) }
```

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

```
.border{ border-color:rgb(80, 175, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 175, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 175, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 175, 129);  
box-shadow:4px 4px 4px 4px rgb(80, 175,  
129) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 41.910, 158.683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 175, 129) }
```

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

```
.background{ background-color: rgb(80, 175,  
129) }
```

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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