

# Converting Colors

CIELCh(65, 16.410, 253.287)

Have a look what the booklet for  
CIELCh(65, 16.410, 253.287)  
contains.

<b>CIELCh(65, 16.460, 253.444)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# Color

**CIELCh(65, 16.460, 253.444)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83A1B9
RGB	131, 161, 185
RGB Percent	51%, 63%, 73%
CMY	0.4844, 0.3667, 0.2726
CMYK	0.29, 0.13, 0.00, 0.27
HSL	207°, 28%, 62%
HSV	207°, 29%, 73%
XYZ	31.0741, 34.0472, 51.1091
YIQ	154.7660, -25.5840, 1.1040

# Conversions

## Conversions Part 2

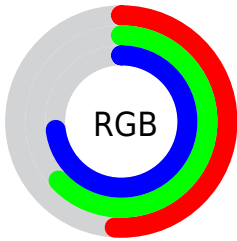
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	131, 150, 185
Decimal	8626617
CIE <sub>Lab</sub>	65.00, -4.69, -15.78
CIE <sub>LCh</sub>	65, 16.460, 253.444
Yxy	34.0472, 0.2673, 0.2929
Android (android.graphics.Color)	4286816697 (0xFF83A1B9)
YUV	154.7660, 14.9054, -20.8428
Hunter-Lab	58.3500, -7.0529, -11.0875

# Details

The CIELCh color  $65, 16.460, 253.444$  is a light color, and the websafe version is hex  $6699CC$ . A complement of this color would be  $66, 18.329, 65.902$ , and the grayscale version is  $64, 0.008, 296.813$ .

A 20% lighter version of the original color is  $85, 16.382, 252.695$ , and  $45, 16.339, 252.619$  is the 20% darker color. If you saturate the color by 10%, you get  $62, 21.802, 255.497$ , and if you desaturate by 10%, it is  $69, 10.938, 251.738$ .

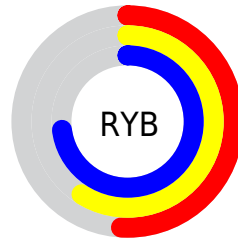
# Distribution



Red (51%)

Green (63%)

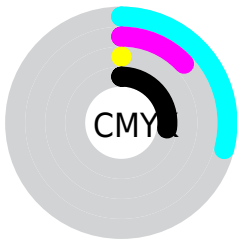
Blue (73%)



Red (51%)

Yellow (59%)

Blue (73%)

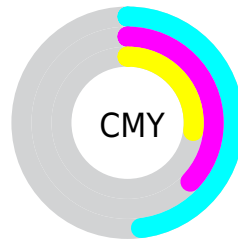


Cyan (29%)

Magenta (13%)

Yellow (0%)

Black (27%)



Cyan (48%)

Magenta (37%)

Yellow (27%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 16.460, 253.444 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, 16.460, 253.444 by changing the saturation by 10% instead.





 65, 16.460,  
253.444


 65, 16.460,  
253.444


 100, 16.460,  
253.444


 55, 16.460,  
253.444


 85, 16.460,  
253.444

 45, 16.460,  
253.444

 95, 16.460,  
253.444

 35, 16.460,  
253.444

 25, 16.460,  
253.444

 15, 16.460,  
253.444

 5, 16.460, 253.444

 0, 16.460, 253.444

■ 65, 16.460,  
253.444

■ 65, 16.460,  
253.444

■ 62, 21.802,  
255.497

■ 69, 10.938,  
251.738

■ 58, 26.942,  
257.972

■ 72, 5.272, 250.349

■ 76, 0.506, 68.312

■ 55, 31.868,  
260.931

■ 79, 6.364, 68.012

■ 52, 36.600,  
264.421

■ 83, 12.275, 67.188

■ 49, 41.192,  
268.452

■ 87, 18.214, 66.469

■ 90, 22.475, 70.420

■ 46, 45.741,  
272.957

■ 92, 24.190, 82.156

■ 43, 50.388,  
277.681

■ 94, 26.775, 91.903

■ 43, 50.811,



# Harmonies

# Complementary

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



65, 16.460, 253.444



66, 18.329, 65.902

# Rectangle

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



65, 16.460, 253.444



65, 16.460, 303.444



65, 16.460, 73.444



65, 16.460, 123.444

# Sweetspot

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



65, 16.459, 253.440



92, 6.462, 250.352



71, 26.102, 157.681



49, 4.520, 250.536



98, 0.011, 296.813



51, 0.007, 296.813





# Same Dimension

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



65, 16.459, 253.440



80, 24.357, 254.726



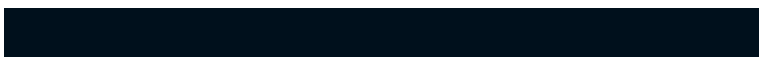
58, 28.709, 291.038



37, 3.247, 250.374



36, 44.073, 277.361



4, 9.699, 262.447



# Inverse Universe

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



61, 26.570, 343.271



75, 39.664, 343.942



73, 27.041, 104.397



36, 5.056, 341.466



33, 59.499, 356.311



3, 12.625, 347.589



# Previews

## White Background



This preview shows how the CIELCh color 65, 16.460, 253.444 looks on a white background.

## Color Contrast Check

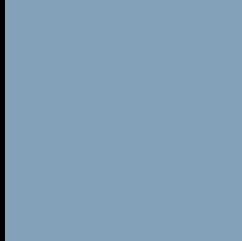
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 65, 16.460, 253.444 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

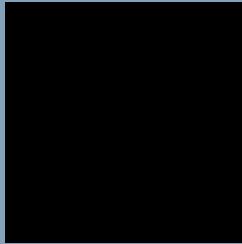
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

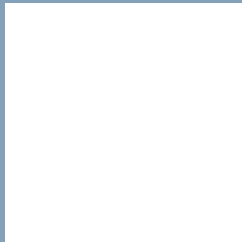
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 65, 16.460, 253.444**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 65, 16.460, 253.444.



This preview shows how white text looks on a background with the CIELCh color 65, 16.460, 253.444.

# 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, 16.460, 253.444


### Protanopia

65, 14.486, 287.486

### Deuteranopia

65, 18.465, 296.479





**Tritanopia**  
65, 13.596, 230.868

# Trichromacy



**Original Color**  
65, 16.460, 253.444

**Protanomaly**  
65, 14.502, 273.378

**Deuteranomaly**  
65, 16.349, 280.820

**Tritanomaly**  
65, 14.245, 240.529

# Monochromacy



**Original Color**  
65, 16.460, 253.444

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 6.367, 251.357

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 16.460, 253.444 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(131, 161, 185)` looks like.

```
.text, #text, p{  
    color:rgb(131, 161, 185)  
}
```

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(131, 161, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 161, 185) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 16.460, 253.444 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(131, 161, 185) }
```

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

```
.border{ border-color:rgb(131, 161, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 161, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 161, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 161, 185);  
box-shadow:4px 4px 4px 4px rgb(131, 161,  
185) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 16.460, 253.444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 161, 185) }
```

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

```
.background{ background-color: rgb(131,  
161, 185) }
```

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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