

# Converting Colors

CIELCh(65, 20.325, 167.709)

Have a look what the booklet for  
CIELCh(65, 20.325, 167.709)  
contains.

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# Color

**CIELCh(65, 20.700, 166.954)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78A895
RGB	120, 168, 149
RGB Percent	47%, 66%, 58%
CMY	0.5304, 0.3422, 0.4167
CMYK	0.29, 0.00, 0.11, 0.34
HSL	156°, 22%, 56%
HSV	156°, 29%, 66%
XYZ	27.0711, 34.0472, 33.4736
YIQ	151.4820, -22.5090, -16.0850

# Conversions

## Conversions Part 2

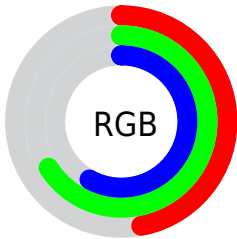
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 150, 168
Decimal	7907477
CIELab	65.00, -20.17, 4.67
CIELCh	65, 20.700, 166.954
Yxy	34.0472, 0.2862, 0.3599
Android (android.graphics.Color)	4286097557 (0xFF78A895)
YUV	151.4820, -1.2236, -27.6097
Hunter-Lab	58.3500, -19.2984, 6.8321

# Details

The CIELCh color  $65, 20.700, 166.954$  is a dark color, and the websafe version is hex  $669999$ . A complement of this color would be  $56, 21.906, 352.552$ , and the grayscale version is  $63, 0.008, 296.813$ .

A 20% lighter version of the original color is  $85, 20.633, 167.310$ , and  $45, 20.857, 166.109$  is the 20% darker color. If you saturate the color by 10%, you get  $64, 27.549, 165.801$ , and if you desaturate by 10%, it is  $66, 13.586, 168.000$ .

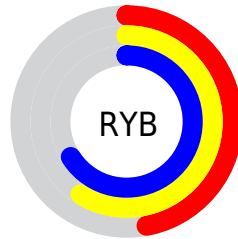
# Distribution



Red (47%)

Green (66%)

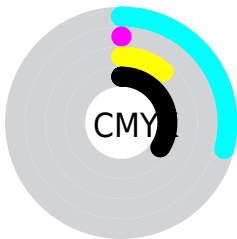
Blue (58%)



Red (47%)

Yellow (59%)

Blue (66%)

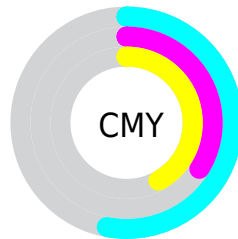


Cyan (29%)

Magenta (0%)

Yellow (11%)

Black (34%)



Cyan (53%)

Magenta (34%)


Yellow (42%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 20.700, 166.954 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, 20.700, 166.954 by changing the saturation by 10% instead.





 65, 20.700,  
166.954


 65, 20.700,  
166.954


 100, 20.700,  
166.954


 55, 20.700,  
166.954


 85, 20.700,  
166.954

 45, 20.700,  
166.954

 95, 20.700,  
166.954

 35, 20.700,  
166.954

 25, 20.700,  
166.954

 15, 20.700,  
166.954

 5, 20.700, 166.954

 0, 20.700, 166.954

65, 20.700,  
166.954

65, 20.700,  
166.954

64, 27.549,  
165.801

66, 13.586,  
168.000

63, 34.011,  
164.522

68, 6.312, 168.980

62, 39.970,  
163.090

69, 1.026, 349.410

71, 8.353, 350.551

62, 45.321,  
161.482

72, 15.607,  
351.327

61, 49.996,  
159.677

74, 22.747,  
352.044

61, 53.972,  
157.667


76, 29.740,  
352.718

61, 57.361,  
155.509

78, 36.568,  
353.355

61, 57.821,

155.220

 78, 38.380,  
348.910

# Harmonies

# Complementary

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



65, 20.700, 166.954



56, 21.906, 352.552

# Rectangle

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



65, 20.700, 166.954



65, 20.700, 216.954



65, 20.700, 346.954



65, 20.700, 36.954

# Sweetspot

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



65, 20.701, 166.952



86, 8.205, 168.925



66, 28.744, 131.208



45, 5.691, 168.789



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



65, 20.701, 166.952



82, 30.359, 166.273



64, 15.165, 208.400



35, 4.159, 168.913



54, 52.464, 155.479



5, 8.029, 165.110



# Inverse Universe

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



56, 21.906, 352.552



68, 32.513, 353.324



56, 18.496, 29.719



33, 4.238, 350.449



31, 56.443, 11.064



2, 7.374, 353.201



# Previews

## White Background



This preview shows how the CIELCh color 65, 20.700, 166.954 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, 20.700, 166.954 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

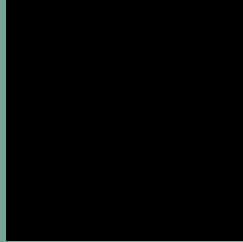
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 65, 20.700, 166.954

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 20.700, 166.954.

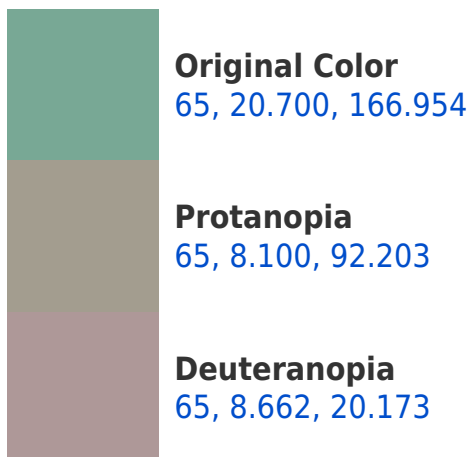


This preview shows how white text looks on a background with the CIELCh color 65, 20.700, 166.954.

# 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







**Tritanopia**  
65, 14.674, 228.136

# Trichromacy



**Original Color**  
65, 20.700, 166.954

**Protanomaly**  
65, 10.447, 140.534

**Deuteranomaly**  
65, 4.191, 131.373

**Tritanomaly**  
65, 14.433, 202.653

# Monochromacy



**Original Color**  
65, 20.700, 166.954

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
63, 7.600, 167.799

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 20.700, 166.954 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(120, 168, 149)` looks like.

```
.text, #text, p{  
    color:rgb(120, 168, 149)  
}
```

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(120, 168, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 168, 149) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 20.700, 166.954 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(120, 168, 149) }
```

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

```
.border{ border-color:rgb(120, 168, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 168, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 168, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 168, 149);  
box-shadow:4px 4px 4px 4px rgb(120, 168,  
149) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 20.700, 166.954 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 168, 149) }
```

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

```
.background{ background-color: rgb(120,  
168, 149) }
```

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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