

# Converting Colors

CIELCh(68, 20.399, 135.977)

Have a look what the booklet for  
CIELCh(68, 20.399, 135.977)  
contains.

<b>CIELCh(68, 20.580, 136.646)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(68, 20.580, 136.646)**

# Conversions

## Conversions Part 1

Format	Color
Hex	94AD8C
RGB	148, 173, 140
RGB Percent	58%, 68%, 55%
CMY	0.4204, 0.3224, 0.4518
CMYK	0.14, 0.00, 0.19, 0.32
HSL	105°, 17%, 61%
HSV	105°, 19%, 68%
XYZ	31.7987, 37.9720, 30.3872
YIQ	161.7630, -4.3070, -15.5630

# Conversions

## Conversions Part 2

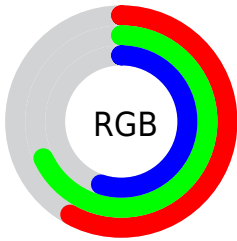
Format	Color
<a href="#">RYB</a>	<a href="#">140, 173, 165</a>
Decimal	<a href="#">9743756</a>
CIELab	<a href="#">68.00, -14.96, 14.13</a>
CIELCh	<a href="#">68, 20.580, 136.646</a>
Yxy	<a href="#">37.9720, 0.3175, 0.3791</a>
Android (android.graphics.Color)	<a href="#">4287933836 (0xFF94AD8C)</a>
YUV	<a href="#">161.7630, -10.7292, -12.0702</a>
Hunter-Lab	<a href="#">61.6215, -15.7255, 13.8976</a>

# Details

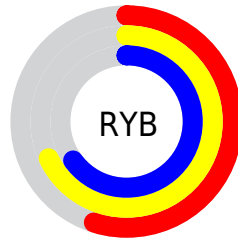
The CIELCh color  $68, 20.580, 136.646$  is a light color, and the websafe version is hex  $999966$ . A complement of this color would be  $61, 20.813, 318.336$ , and the grayscale version is  $66, 0.008, 296.813$ .

A 20% lighter version of the original color is  $88, 20.160, 137.061$ , and  $48, 20.754, 136.823$  is the 20% darker color. If you saturate the color by 10%, you get  $67, 31.372, 136.096$ , and if you desaturate by 10%, it is  $69, 9.766, 137.149$ .

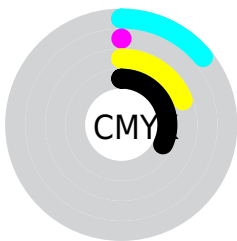
# Distribution



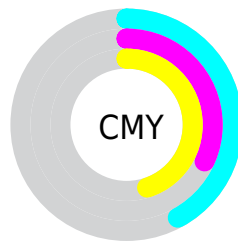
- Red (58%)
- Green (68%)
- Blue (55%)



- Red (55%)
- Yellow (68%)
- Blue (65%)



- Cyan (14%)
- Magenta (0%)
- Yellow (19%)
- Black (32%)



- Cyan (42%)
- Magenta (32%)
- Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 20.580, 136.646 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 68, 20.580, 136.646 by changing the saturation by 10% instead.




 68, 20.580,  
136.646


 68, 20.580,  
136.646

 100, 20.580,  
136.646


 58, 20.580,  
136.646


 88, 20.580,  
136.646

 48, 20.580,  
136.646

 98, 20.580,  
136.646

 38, 20.580,  
136.646

 28, 20.580,  
136.646

 18, 20.580,  
136.646

 8, 20.580, 136.646

 0, 20.580, 136.646

68, 20.580,  
136.646

68, 20.580,  
136.646

67, 31.372,  
136.096

69, 9.766, 137.149

66, 41.995,  
135.502

71, 0.976, 317.386

65, 52.261,  
134.888

72, 11.570,  
317.931

64, 61.907,  
134.301

74, 21.969,  
318.267

63, 70.586,  
133.820

76, 32.140,  
318.552

63, 77.864,  
133.555

78, 42.063,  
318.796


62, 83.301,  
133.631


79, 49.100,  
320.579

62, 86.864,

81, 51.004,  
325.333

134.017

 81, 51.397,  
326.198

 62, 87.153,  
134.041

# Harmonies

# Complementary

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



68, 20.580, 136.646



61, 20.813, 318.336

# Rectangle

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



68, 20.580, 136.646



68, 20.580, 186.646



68, 20.580, 316.646



68, 20.580, 6.646

# Sweetspot

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



68, 20.582, 136.647



88, 7.953, 137.294



68, 13.968, 94.969



47, 5.271, 137.264



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



68, 20.582, 136.647



85, 30.681, 136.416



68, 18.614, 150.994



36, 6.097, 137.139



54, 78.584, 133.916



6, 13.031, 138.882



# Inverse Universe

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



61, 20.813, 318.336



76, 31.096, 318.525



62, 18.718, 333.575



34, 6.137, 317.904



29, 79.921, 319.377

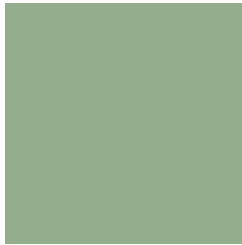


2, 12.578, 314.974



# Previews

## White Background



This preview shows how the CIELCh color 68, 20.580, 136.646 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 68, 20.580, 136.646 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

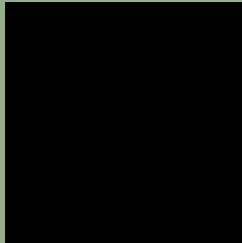
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 68, 20.580, 136.646**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 20.580, 136.646.



This preview shows how white text looks on a background with the CIELCh color 68, 20.580, 136.646.

# 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

68, 20.580, 136.646

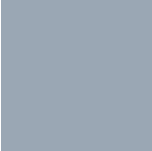
### Protanopia

68, 16.399, 94.133

### Deuteranopia

68, 15.125, 55.494





**Tritanopia**  
68, 8.450, 257.395

# Trichromacy



**Original Color**  
68, 20.580, 136.646

**Protanomaly**  
68, 16.982, 112.496

**Deuteranomaly**  
68, 12.723, 90.480

**Tritanomaly**  
68, 6.732, 179.762

# Monochromacy



**Original Color**  
68, 20.580, 136.646

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
67, 7.487, 137.007

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 20.580, 136.646 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(148, 173, 140)` looks like.

```
.text, #text, p{  
    color:rgb(148, 173, 140)  
}
```

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(148, 173, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 173, 140) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 20.580, 136.646 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(148, 173, 140) }
```

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

```
.border{ border-color:rgb(148, 173, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 173, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 173, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 173, 140);  
box-shadow:4px 4px 4px 4px rgb(148, 173,  
140) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 20.580, 136.646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 173, 140) }
```

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

```
.background{ background-color: rgb(148,  
173, 140) }
```

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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