

Converting Colors

CIE LCh(68, 2.023, 9.826)

Have a look what the booklet for
CIELCh(68, 2.023, 9.826) contains.

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Color

CIELCh(68, 1.904, 19.323)

Conversions

Conversions Part 1

Format	Color
Hex	AAA5A5
RGB	170, 165, 165
RGB Percent	67%, 65%, 65%
CMY	0.3349, 0.3545, 0.3545
CMYK	0.00, 0.03, 0.03, 0.33
HSL	0°, 3%, 66%
HSV	0°, 3%, 67%
XYZ	36.6313, 37.9720, 40.8079
YIQ	166.4950, 2.9800, 1.0600

Conversions

Conversions Part 2

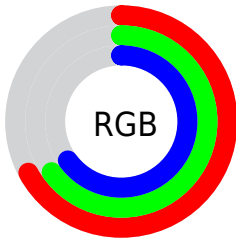
Format	Color
RYB	170, 165, 165
Decimal	11183525
CIELab	68.00, 1.80, 0.63
CIELCh	68, 1.904, 19.323
Yxy	37.9720, 0.3174, 0.3290
Android (android.graphics.Color)	4289373605 (0xFFAAA5A5)
YUV	166.4950, -0.7370, 3.0739
Hunter-Lab	61.6215, -1.7271, 3.8711

Details

The CIELCh color **68, 1.904, 19.323** is a light color, and the websafe version is hex **999999**. A complement of this color would be **69, 1.867, 199.555**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 1.803, 19.205**, and **48, 2.044, 19.466** is the 20% darker color. If you saturate the color by 10%, you get **63, 8.691, 20.242**, and if you desaturate by 10%, it is **73, 4.380, 199.214**.

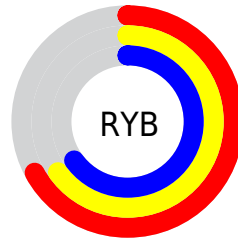
Distribution



Red (67%)

Green (65%)

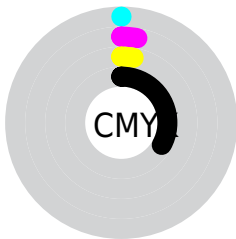
Blue (65%)



Red (67%)

Yellow (65%)

Blue (65%)

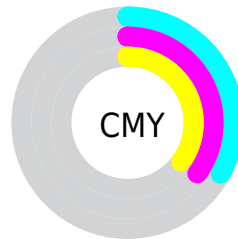


Cyan (0%)

Magenta (3%)

Yellow (3%)

Black (33%)



Cyan (33%)

Magenta (35%)

Yellow (35%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 1.904, 19.323 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, 1.904, 19.323 by changing the saturation by 10% instead.

 68, 1.904, 19.323  68, 1.904, 19.323

 100, 1.904, 19.323  58, 1.904, 19.323

 88, 1.904, 19.323  48, 1.904, 19.323

 98, 1.904, 19.323  38, 1.904, 19.323

 28, 1.904, 19.323

 18, 1.904, 19.323

 8, 1.904, 19.323

 0, 1.904, 19.323

 68, 1.904, 19.323  68, 1.904, 19.323

 63, 8.691, 20.242  73, 4.380, 199.214

58, 16.009, 21.130

78, 10.200,
198.734

54, 23.854, 22.259

83, 15.604,
198.384

49, 32.171, 23.725

45, 40.836, 25.630

88, 20.640,
198.107

42, 49.642, 28.076

93, 25.354,
197.882

39, 58.300, 31.111

37, 66.385, 34.588

95, 26.861,
197.761

36, 73.060, 37.894

Harmonies

Complementary

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



68, 1.904, 19.323



69, 1.867, 199.555

Rectangle

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



68, 1.904, 19.323



68, 1.904, 69.323



68, 1.904, 199.323



68, 1.904, 249.323

Sweetspot

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



68, 1.903, 19.372



87, 0.791, 18.769



68, 3.357, 324.533



46, 0.449, 18.721



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



68, 1.903, 19.372



85, 3.198, 19.511



69, 1.654, 74.874



34, 1.828, 19.568



30, 69.019, 39.369



1, 6.569, 19.447

Inverse Universe

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



69, 1.867, 199.555



87, 3.118, 199.423



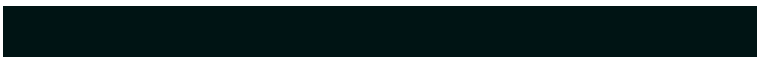
68, 1.655, 255.971



35, 1.776, 199.369



55, 33.360, 196.475



5, 6.566, 199.491

Previews

White Background



This preview shows how the CIELCh color 68, 1.904, 19.323 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, 1.904, 19.323 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

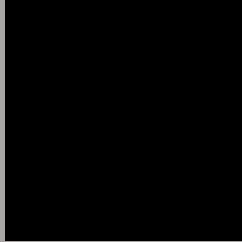
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

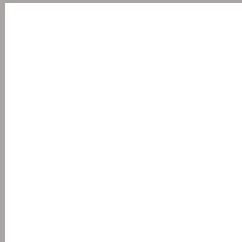
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 68, 1.904, 19.323

Background



This preview shows how black text looks on a background with the CIELCh color 68, 1.904, 19.323.

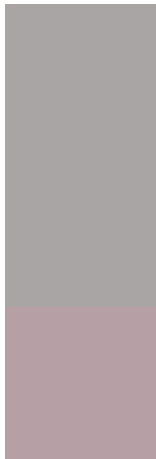


This preview shows how white text looks on a background with the CIELCh color 68, 1.904, 19.323.

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, 1.904, 19.323

Protanopia

68, 1.522, 19.226

Deuteranopia

68, 8.918, 2.298



Tritanopia
68, 7.798, 313.278

Trichromacy



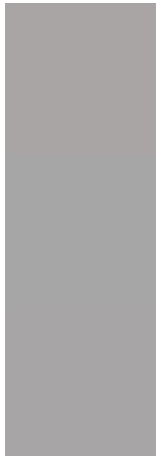
Original Color
68, 1.904, 19.323

Protanomaly
68, 1.522, 19.226

Deuteranomaly
68, 5.996, 3.951

Tritanomaly
68, 4.978, 317.454

Monochromacy



Original Color
68, 1.904, 19.323

Achromatopsia
68, 0.008, 296.813

Achromatomaly
68, 0.760, 18.843

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 1.904, 19.323 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(170, 165, 165)` looks like.

```
.text, #text, p{  
    color:rgb(170, 165, 165)  
}
```

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(170, 165, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 165, 165) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 1.904, 19.323 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(170, 165, 165) }
```

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

```
.border{ border-color:rgb(170, 165, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 165, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 165, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 165, 165);  
box-shadow:4px 4px 4px 4px rgb(170, 165,  
165) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 1.904, 19.323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 165, 165) }
```

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

```
.background{ background-color: rgb(170,  
165, 165) }
```

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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