

Converting Colors

CIELCh(69, 48.502, 160.221)

Have a look what the booklet for
CIELCh(69, 48.502, 160.221)
contains.

CIELCh(69, 48.616, 160.007)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIElCh(69, 48.616, 160.007)

Conversions

Conversions Part 1

Format	Color
Hex	45BD89
RGB	69, 189, 137
RGB Percent	27%, 74%, 54%
CMY	0.7305, 0.2598, 0.4636
CMYK	0.64, 0.00, 0.28, 0.26
HSL	154°, 48%, 50%
HSV	154°, 64%, 74%
XYZ	25.0783, 39.3444, 29.8535
YIQ	147.1920, -54.8280, -41.6120

Conversions

Conversions Part 2

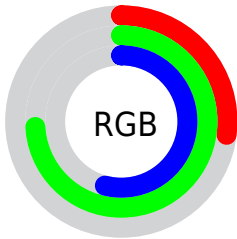
Format	Color
RYB	69, 146, 189
Decimal	4570505
CIELab	69.00, -45.69, 16.62
CIELCh	69, 48.616, 160.007
Yxy	39.3444, 0.2660, 0.4173
Android (android.graphics.Color)	4282760585 (0xFF45BD89)
YUV	147.1920, -5.0247, -68.5744
Hunter-Lab	62.7251, -38.4024, 15.6890

Details

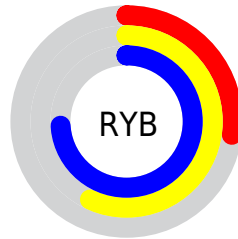
The CIELCh color **69, 48.616, 160.007** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **47, 53.065, 355.893**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 48.401, 160.236**, and **50, 46.657, 158.354** is the 20% darker color. If you saturate the color by 10%, you get **68, 54.408, 158.262**, and if you desaturate by 10%, it is **70, 42.106, 161.555**.

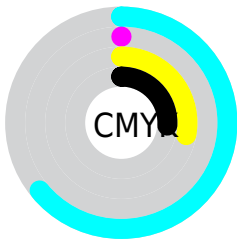
Distribution



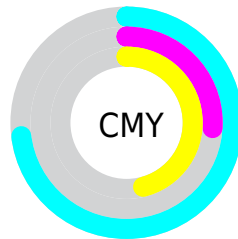
- Red (27%)
- Green (74%)
- Blue (54%)



- Red (27%)
- Yellow (57%)
- Blue (74%)



- Cyan (64%)
- Magenta (0%)
- Yellow (28%)
- Black (26%)



- Cyan (73%)
- Magenta (26%)
- Yellow (46%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 48.616, 160.007 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 69, 48.616, 160.007 by changing the saturation by 10% instead.

 69, 48.616,
160.007

 69, 48.616,
160.007

 100, 48.616,
160.007

 59, 48.616,
160.007


 89, 48.616,
160.007

 49, 48.616,
160.007

 99, 48.616,
160.007

 39, 48.616,
160.007

 29, 48.616,
160.007

 19, 48.616,
160.007

 9, 48.616, 160.007

 0, 48.616, 160.007

■ 69, 48.616,
160.007

■ 69, 48.616,
160.007

■ 68, 54.408,
158.262

■ 70, 42.106,
161.555

■ 68, 59.424,
156.307

■ 71, 34.981,
162.929

■ 68, 63.676,
154.148

■ 72, 27.371,
164.153

■ 68, 66.130,
152.733

■ 73, 19.415,
165.252

■ 74, 11.243,
166.255

■ 76, 2.971, 167.255

■ 78, 5.305, 347.864

■ 79, 13.511,
348.673

■ 81, 21.591,
349.395

Harmonies

Complementary

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



69, 48.616, 160.007



47, 53.065, 355.893

Rectangle

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



69, 48.616, 160.007



69, 48.616, 210.007



69, 48.616, 340.007



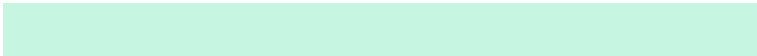
69, 48.616, 30.007

Sweetspot

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



69, 48.617, 160.006



93, 19.365, 165.692



70, 66.980, 128.621



49, 13.300, 165.400



98, 0.011, 296.813



51, 0.007, 296.813

Same Dimension

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



69, 48.617, 160.006



86, 68.461, 157.576



68, 31.765, 205.062



39, 4.690, 166.662



57, 57.629, 153.070



9, 15.830, 160.056

Inverse Universe

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



47, 53.065, 355.893



56, 74.032, 359.485



48, 52.555, 31.922



37, 4.768, 348.192



33, 59.076, 7.805



3, 13.483, 355.483

Previews

White Background



This preview shows how the CIE LCh color 69, 48.616, 160.007 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 69, 48.616, 160.007 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 69, 48.616, 160.007

Background



This preview shows how black text looks on a background with the CIELCh color 69, 48.616, 160.007.

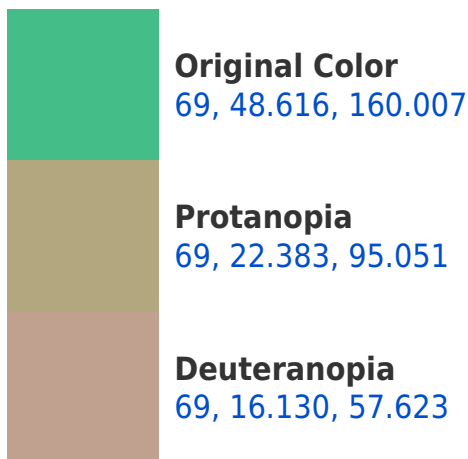


This preview shows how white text looks on a background with the CIELCh color 69, 48.616, 160.007.

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
69, 27.864, 214.812

Trichromacy



Original Color
69, 48.616, 160.007



Protanomaly
68, 27.921, 138.060



Deuteranomaly
67, 18.988, 137.978



Tritanomaly
69, 32.232, 186.953

Monochromacy



Original Color
69, 48.616, 160.007



Achromatopsia
61, 0.008, 296.813



Achromatomaly
63, 19.373, 164.468

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 69, 48.616, 160.007 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(69, 189, 137)` looks like.

```
.text, #text, p{  
    color:rgb(69, 189, 137)  
}
```

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(69, 189, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 189, 137) }
```

Border

The CSS property to change the border of an element to CIELCh 69, 48.616, 160.007 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(69, 189, 137) }
```

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

```
.border{ border-color:rgb(69, 189, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 189, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 189, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 189, 137);  
box-shadow:4px 4px 4px 4px rgb(69, 189,  
137) }
```

Background

The CSS property to change the background color of an element to CIELCh 69, 48.616, 160.007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 189, 137) }
```

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

```
.background{ background-color: rgb(69, 189,  
137) }
```

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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