

Converting Colors

CIELCh(48, 3.490, 309.187)

Have a look what the booklet for
CIELCh(48, 3.490, 309.187) contains.

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Color

CIELCh(48, 3.203, 312.618)

Conversions

Conversions Part 1

Format	Color
Hex	747176
RGB	116, 113, 118
RGB Percent	45%, 44%, 46%
CMY	0.5456, 0.5573, 0.5377
CMYK	0.02, 0.04, 0.00, 0.54
HSL	276°, 2%, 45%
HSV	276°, 4%, 46%
XYZ	16.3421, 16.7945, 19.4833
YIQ	114.4670, 0.1830, 2.1910

Conversions

Conversions Part 2

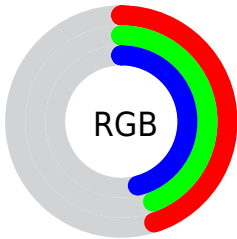
Format	Color
RYB	116, 113, 118
Decimal	7631222
CIELab	48.00, 2.17, -2.36
CIELCh	48, 3.203, 312.618
Yxy	16.7945, 0.3106, 0.3192
Android (android.graphics.Color)	4285821302 (0xFF747176)
YUV	114.4670, 1.7418, 1.3444
Hunter-Lab	40.9810, -0.5361, 0.4989

Details

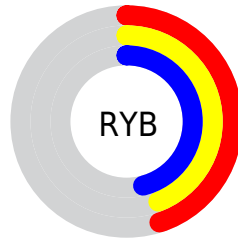
The CIELCh color $48, 3.203, 312.618$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $49, 3.177, 132.345$, and the grayscale version is $48, 0.006, 296.813$.

A 20% lighter version of the original color is $68, 2.995, 312.558$, and $28, 3.514, 312.726$ is the 20% darker color. If you saturate the color by 10%, you get $44, 10.874, 313.045$, and if you desaturate by 10%, it is $52, 4.278, 132.288$.

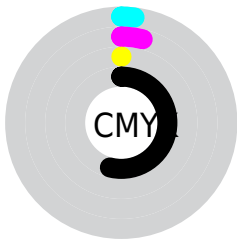
Distribution



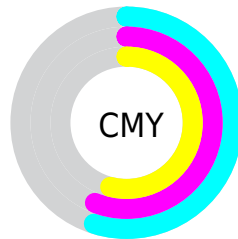
- Red (45%)
- Green (44%)
- Blue (46%)



- Red (45%)
- Yellow (44%)
- Blue (46%)



- Cyan (2%)
- Magenta (4%)
- Yellow (0%)
- Black (54%)



- Cyan (55%)
- Magenta (56%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 3.203, 312.618 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 48, 3.203, 312.618 by changing the saturation by 10% instead.

■ 48, 3.203, 312.618

■ 48, 3.203, 312.618

■ 100, 3.203,
312.618

■ 38, 3.203, 312.618

■ 68, 3.203, 312.618

■ 28, 3.203, 312.618

■ 78, 3.203, 312.618

■ 18, 3.203, 312.618

■ 88, 3.203, 312.618

■ 8, 3.203, 312.618

■ 98, 3.203, 312.618

■ 0, 3.203, 312.618

■ 48, 3.203, 312.618

■ 48, 3.203, 312.618

■ 44, 10.874,
313.045

■ 52, 4.278, 132.288

■ 41, 18.710,

■ 56, 11.552,
131.924

313.481

59, 18.618,
131.604

37, 26.657,
313.925

63, 25.479,
131.318

33, 34.619,
314.362

67, 32.141,
131.063

30, 42.445,
314.762

70, 38.614,
130.838

27, 49.901,
315.084

74, 44.906,
130.639

24, 56.659,
315.271

78, 51.027,
130.464

22, 62.305,
315.252

81, 56.988,
130.312

20, 66.512,
314.969

Harmonies

Complementary

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



48, 3.203, 312.618



49, 3.177, 132.345

Rectangle

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



48, 3.203, 312.618



48, 3.203, 2.618



48, 3.203, 132.618



48, 3.203, 182.618

Sweetspot

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



48, 3.202, 312.613



63, 0.937, 312.387



48, 1.898, 264.496



32, 0.530, 312.373



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



48, 3.202, 312.613



61, 4.679, 312.653



48, 3.390, 326.947



23, 2.543, 312.667



19, 70.749, 314.789



43, 120.483, 314.200

Inverse Universe

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



48, 2.360, 349.635



61, 3.451, 349.733



49, 3.378, 146.594



24, 1.876, 349.764



25, 49.118, 9.632



53, 83.700, 12.744

Previews

White Background



This preview shows how the CIELCh color 48, 3.203, 312.618 looks on a white background.

Color Contrast Check

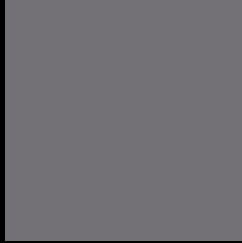
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 48, 3.203, 312.618 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

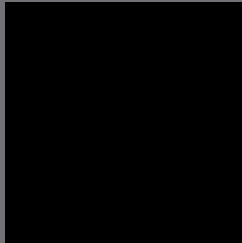
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

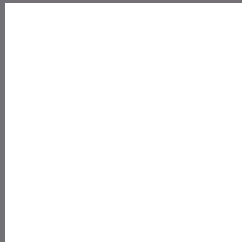
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 48, 3.203, 312.618

Background



This preview shows how black text looks on a background with the CIELCh color 48, 3.203, 312.618.



This preview shows how white text looks on a background with the CIELCh color 48, 3.203, 312.618.

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


48, 3.203, 312.618

Protanopia

48, 3.071, 305.680

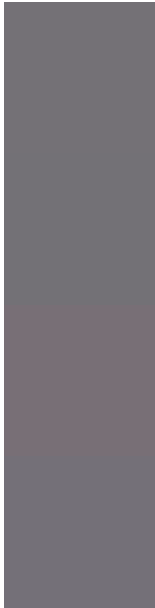
Deuteranopia

48, 7.096, 338.640



Tritanopia
48, 5.570, 307.426

Trichromacy



Original Color

48, 3.203, 312.618

Protanomaly

48, 3.071, 305.680

Deuteranomaly

48, 5.528, 331.729

Tritanomaly

48, 5.009, 309.333

Monochromacy



Original Color

48, 3.203, 312.618

Achromatopsia

48, 0.006, 296.813

Achromatomaly

48, 0.724, 324.250

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 3.203, 312.618 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(116, 113, 118)` looks like.

```
.text, #text, p{  
    color:rgb(116, 113, 118)  
}
```

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(116, 113, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 113, 118) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 3.203, 312.618 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(116, 113, 118) }
```

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

```
.border{ border-color:rgb(116, 113, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 113, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 113, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 113, 118);  
box-shadow:4px 4px 4px 4px rgb(116, 113,  
118) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 3.203, 312.618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 113, 118) }
```

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

```
.background{ background-color: rgb(116,  
113, 118) }
```

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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