

Converting Colors

CIELCh(49, 1.308, 290.780)

Have a look what the booklet for
CIELCh(49, 1.308, 290.780) contains.

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Color

CIELCh(49, 1.180, 290.370)

Conversions

Conversions Part 1

Format	Color
Hex	747476
RGB	116, 116, 118
RGB Percent	45%, 45%, 46%
CMY	0.5441, 0.5441, 0.5363
CMYK	0.02, 0.02, 0.00, 0.54
HSL	240°, 1%, 46%
HSV	240°, 2%, 46%
XYZ	16.7963, 17.5941, 19.7298
YIQ	116.2280, -0.6420, 0.6220

Conversions

Conversions Part 2

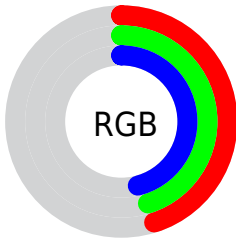
Format	Color
R_{YB}	116, 116, 118
Decimal	7631990
CIE Lab	49.00, 0.41, -1.11
CIE LCh	49, 1.180, 290.370
Yxy	17.5941, 0.3104, 0.3251
Android (android.graphics.Color)	4285822070 (0xFF747476)
YUV	116.2280, 0.8736, -0.2000
Hunter-Lab	41.9453, -1.9269, 1.4734

Details

The CIELCh color **49, 1.180, 290.370** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **50, 1.162, 109.946**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 1.106, 290.340**, and **29, 1.291, 290.448** is the 20% darker color. If you saturate the color by 10%, you get **45, 8.264, 291.306**, and if you desaturate by 10%, it is **53, 5.645, 109.423**.

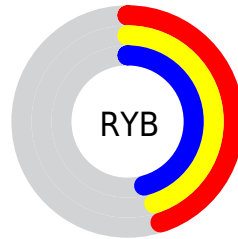
Distribution



Red (45%)

Green (45%)

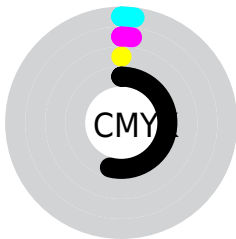
Blue (46%)



Red (45%)

Yellow (45%)

Blue (46%)



Cyan (2%)

Magenta (2%)

Yellow (0%)

Black (54%)



Cyan (54%)

Magenta (54%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 1.180, 290.370 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 49, 1.180, 290.370 by changing the saturation by 10% instead.

■ 49, 1.180, 290.370

■ 49, 1.180, 290.370

■ 100, 1.180,
290.370

■ 39, 1.180, 290.370

■ 69, 1.180, 290.370

■ 29, 1.180, 290.370

■ 79, 1.180, 290.370

■ 19, 1.180, 290.370

■ 89, 1.180, 290.370

■ 9, 1.180, 290.370

■ 99, 1.180, 290.370

■ 0, 1.180, 290.370

■ 49, 1.180, 290.370

■ 49, 1.180, 290.370

■ 45, 8.264, 291.306

■ 53, 5.645, 109.423

■ 40, 15.631,
292.485

■ 58, 12.226,
108.688

36, 23.300,
293.865

62, 18.581,
108.054

31, 31.287,
295.467

66, 24.726,
107.506

27, 39.581,
297.295

70, 30.674,
107.031

23, 48.102,
299.319

75, 36.437,
106.617

19, 56.609,
301.438

79, 42.026,
106.255

16, 64.553,
303.454

83, 47.453,
105.937

13, 70.975,
305.076

87, 52.728,
105.656

Harmonies

Complementary

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



49, 1.180, 290.370



50, 1.162, 109.946

Rectangle

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



49, 1.180, 290.370



49, 1.180, 340.370



49, 1.180, 110.370



49, 1.180, 160.370

Sweetspot

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



49, 1.179, 290.330



63, 0.862, 290.292



50, 0.801, 198.388



32, 0.488, 290.290



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



49, 1.179, 290.330



62, 1.720, 290.357



49, 1.247, 308.493



24, 0.779, 290.338



12, 77.672, 306.267



32, 131.741, 306.279

Inverse Universe

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



49, 0.810, 18.954



62, 1.184, 19.056



50, 1.232, 128.476



24, 0.536, 18.990



24, 59.013, 37.948



52, 102.944, 39.970

Previews

White Background



This preview shows how the CIELCh color 49, 1.180, 290.370 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 49, 1.180, 290.370 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

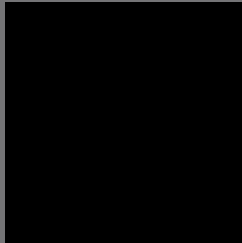
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

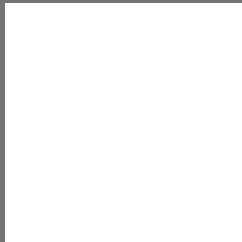
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 49, 1.180, 290.370

Background



This preview shows how black text looks on a background with the CIELCh color 49, 1.180, 290.370.



This preview shows how white text looks on a background with the CIELCh color 49, 1.180, 290.370.

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


49, 1.180, 290.370

Protanopia

49, 1.437, 324.409

Deuteranopia

49, 6.361, 346.588



Tritanopia
49, 5.365, 299.312

Trichromacy



Original Color

49, 1.180, 290.370

Protanomaly

49, 1.252, 309.074

Deuteranomaly

49, 4.388, 337.885

Tritanomaly

49, 4.207, 301.581

Monochromacy



Original Color

49, 1.180, 290.370

Achromatopsia

49, 0.007, 296.813

Achromatomaly

49, 0.593, 290.329

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 1.180, 290.370 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, 116, 118)` looks like.

```
.text, #text, p{  
    color:rgb(116, 116, 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, 116, 118) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 49, 1.180, 290.370 is called "border". The border property can be set on classes, ids or directly on the HTML element.

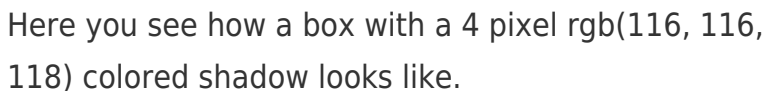
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(116, 116, 118) }
```

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

```
.border{ border-color:rgb(116, 116, 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, 116, 118)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 49, 1.180, 290.370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(116,  
116, 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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