

Converting Colors

CIELCh(48, 12.776, 189.433)

Have a look what the booklet for
CIELCh(48, 12.776, 189.433)
contains.

CIELCh(48, 12.610, 189.929)	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(48, 12.610, 189.929)

Conversions

Conversions Part 1

Format	Color
Hex	577875
RGB	87, 120, 117
RGB Percent	34%, 47%, 46%
CMY	0.6582, 0.5288, 0.5405
CMYK	0.27, 0.00, 0.02, 0.53
HSL	175°, 16%, 41%
HSV	175°, 27%, 47%
XYZ	13.9020, 16.7945, 19.3887
YIQ	109.7910, -18.7050, -7.9290

Conversions

Conversions Part 2

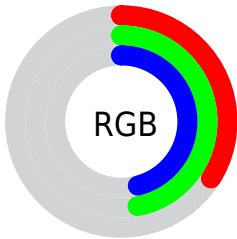
Format	Color
RYB	87, 104, 120
Decimal	5732469
CIELab	48.00, -12.42, -2.17
CIELCh	48, 12.610, 189.929
Yxy	16.7945, 0.2776, 0.3353
Android (android.graphics.Color)	4283922549 (0xFF577875)
YUV	109.7910, 3.5540, -19.9877
Hunter-Lab	40.9810, -11.1641, 0.6358

Details

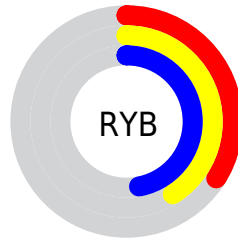
The CIELCh color **48, 12.610, 189.929** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **41, 14.587, 14.428**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 12.388, 190.684**, and **28, 12.277, 191.383** is the 20% darker color. If you saturate the color by 10%, you get **47, 16.663, 189.180**, and if you desaturate by 10%, it is **49, 8.228, 190.669**.

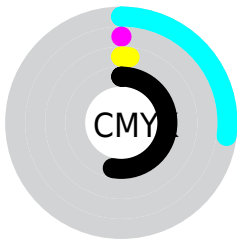
Distribution



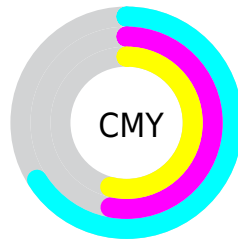
- Red (34%)
- Green (47%)
- Blue (46%)



- Red (34%)
- Yellow (41%)
- Blue (47%)



- Cyan (27%)
- Magenta (0%)
- Yellow (2%)
- Black (53%)



- Cyan (66%)
- Magenta (53%)
- Yellow (54%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 12.610, 189.929 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, 12.610, 189.929 by changing the saturation by 10% instead.


 48, 12.610,
189.929


 48, 12.610,
189.929


 100, 12.610,
189.929


 38, 12.610,
189.929

 68, 12.610,
189.929


 28, 12.610,
189.929

 78, 12.610,
189.929

 18, 12.610,
189.929


 88, 12.610,
189.929

 8, 12.610, 189.929

 98, 12.610,
189.929

 0, 12.610, 189.929

 48, 12.610,

 48, 12.610,

189.929

189.929

■ 47, 16.663,
189.180

■ 49, 8.228, 190.669

■ 47, 20.313,
188.424

■ 50, 3.589, 191.450

■ 51, 1.240, 11.765

■ 46, 23.491,
187.648

■ 52, 6.197, 12.716

■ 46, 26.143,
186.840

■ 53, 11.233, 13.448

■ 54, 16.306, 14.156

■ 45, 28.236,
185.987

■ 56, 21.383, 14.851

■ 45, 29.767,
185.073

■ 57, 26.440, 15.532

■ 59, 31.456, 16.200

■ 45, 30.859,
184.109

■ 45, 31.128,
183.872

Harmonies

Complementary

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



48, 12.610, 189.929



41, 14.587, 14.428

Rectangle

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



48, 12.610, 189.929



48, 12.610, 239.929



48, 12.610, 9.929



48, 12.610, 59.929

Sweetspot

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



48, 12.611, 189.925



63, 4.744, 191.388



47, 23.020, 140.179



33, 3.390, 191.283



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



48, 12.611, 189.925



61, 18.356, 189.454



44, 10.596, 247.389



25, 2.741, 191.315



47, 32.025, 183.825



90, 54.189, 183.209

Inverse Universe

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



41, 14.587, 14.428



50, 22.045, 15.257



44, 11.907, 61.239



24, 2.868, 12.512



25, 57.535, 34.456



53, 99.909, 37.098

Previews

White Background



This preview shows how the CIE LCh color 48, 12.610, 189.929 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 CIELCh color 48, 12.610, 189.929 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

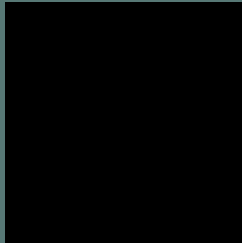
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 12.610, 189.929

Background



This preview shows how black text looks on a background with the CIELCh color 48, 12.610, 189.929.



This preview shows how white text looks on a background with the CIELCh color 48, 12.610, 189.929.

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, 12.610, 189.929

Protanopia

48, 1.223, 19.251

Deuteranopia

48, 7.216, 332.919



Tritanopia
48, 11.643, 225.686

Trichromacy



Original Color
48, 12.610, 189.929

Protanomaly
48, 4.027, 190.607

Deuteranomaly
48, 3.052, 250.129

Tritanomaly
48, 11.352, 213.440

Monochromacy



Original Color
48, 12.610, 189.929

Achromatopsia
46, 0.006, 296.813

Achromatomaly
47, 4.809, 191.843

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 12.610, 189.929 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(87, 120, 117)` looks like.

```
.text, #text, p{  
    color:rgb(87, 120, 117)  
}
```

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(87, 120, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 120, 117) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 12.610, 189.929 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(87, 120, 117) }
```

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

```
.border{ border-color:rgb(87, 120, 117) }
```

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

Here you see how a box with a 4 pixel rgb(87, 120, 117) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 120, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 120, 117);  
box-shadow:4px 4px 4px 4px rgb(87, 120,  
117) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 12.610, 189.929 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 120, 117) }
```

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

```
.background{ background-color: rgb(87, 120,  
117) }
```

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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