

Converting Colors

CIELCh(45, 12.543, 19.978)

Have a look what the booklet for
CIELCh(45, 12.543, 19.978) contains.

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Color

CIELCh(45, 12.490, 18.310)

Conversions

Conversions Part 1

Format	Color
Hex	806364
RGB	128, 99, 100
RGB Percent	50%, 39%, 39%
CMY	0.4965, 0.6103, 0.6064
CMYK	0.00, 0.23, 0.22, 0.50
HSL	358°, 13%, 45%
HSV	358°, 23%, 50%
XYZ	15.7770, 14.5417, 14.1266
YIQ	107.7850, 16.9630, 6.4590

Conversions

Conversions Part 2

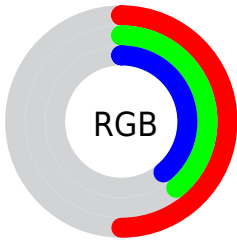
Format	Color
R_{YB}	128, 99, 100
Decimal	8414052
CIE _{Lab}	45.00, 11.86, 3.92
CIE _{LCh}	45, 12.490, 18.310
Yxy	14.5417, 0.3550, 0.3272
Android (android.graphics.Color)	4286604132 (0xFF806364)
YUV	107.7850, -3.8380, 17.7286
Hunter-Lab	38.1336, 7.1170, 4.7296

Details

The CIELCh color $45, 12.490, 18.310$ is a dark color, and the websafe version is hex 996666 . A complement of this color would be $52, 10.918, 195.237$, and the grayscale version is $46, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 12.312, 17.997$, and $25, 12.574, 18.991$ is the 20% darker color. If you saturate the color by 10%, you get $41, 18.635, 19.467$, and if you desaturate by 10%, it is $49, 6.720, 17.385$.

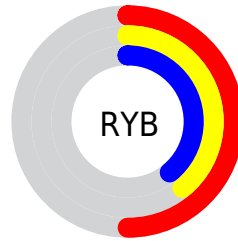
Distribution



Red (50%)

Green (39%)

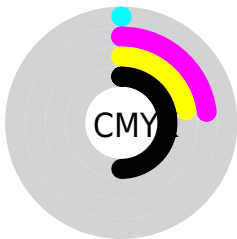
Blue (39%)



Red (50%)

Yellow (39%)

Blue (39%)

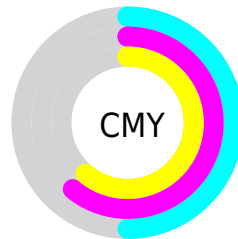


Cyan (0%)

Magenta (23%)

Yellow (22%)

Black (50%)



Cyan (50%)

Magenta (61%)

Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 12.490, 18.310 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 45, 12.490, 18.310 by changing the saturation by 10% instead.

■ 45, 12.490, 18.310

■ 45, 12.490, 18.310

■ 100, 12.490,
18.310

■ 35, 12.490, 18.310

■ 65, 12.490, 18.310

■ 25, 12.490, 18.310

■ 75, 12.490, 18.310

■ 15, 12.490, 18.310

■ 85, 12.490, 18.310

■ 5, 12.490, 18.310

■ 95, 12.490, 18.310

■ 0, 12.490, 18.310

■ 45, 12.490, 18.310

■ 45, 12.490, 18.310

■ 41, 18.635, 19.467

■ 49, 6.720, 17.385

■ 38, 25.114, 20.926

■ 53, 1.339, 16.424

35, 31.832, 22.791

57, 3.671, 196.239

32, 38.637, 25.165

61, 8.336, 195.694

29, 45.326, 28.132

65, 12.689,
195.274

28, 51.657, 31.660

69, 16.762,
194.926

26, 57.225, 35.381

26, 60.439, 37.043

73, 20.588,
194.632

77, 24.196,
194.379

81, 27.613,
194.160

Harmonies

Complementary

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



45, 12.490, 18.310



52, 10.918, 195.237

Rectangle

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



45, 12.490, 18.310



45, 12.490, 68.310



45, 12.490, 198.310



45, 12.490, 248.310

Sweetspot

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



45, 12.489, 18.316



65, 4.512, 16.925



46, 20.375, 324.207



34, 2.959, 16.964



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



45, 12.489, 18.316



55, 18.704, 18.860



49, 10.341, 67.309



25, 2.952, 17.089



25, 60.091, 36.986



0, 0.000, 0.000

Inverse Universe

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



45, 12.489, 18.316



55, 18.704, 18.860



48, 9.582, 252.840



25, 2.952, 17.089



25, 60.091, 36.986



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 12.490, 18.310 looks on a white background.

Color Contrast Check

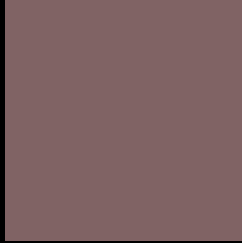
Large Text (above 18pt) WCAG AA ✓ Pass

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 45, 12.490, 18.310 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

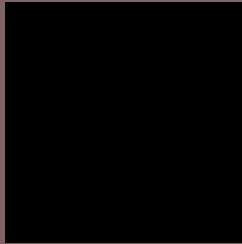
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 12.490, 18.310

Background



This preview shows how black text looks on a background with the CIELCh color 45, 12.490, 18.310.



This preview shows how white text looks on a background with the CIELCh color 45, 12.490, 18.310.

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

45, 12.490, 18.310

Protanopia

45, 1.711, 63.291

Deuteranopia

45, 7.488, 33.928



Tritanopia
45, 13.875, 1.355

Trichromacy



Original Color
45, 12.490, 18.310

Protanomaly
45, 5.085, 26.645

Deuteranomaly
45, 9.091, 27.938

Tritanomaly
45, 13.063, 8.088

Monochromacy



Original Color
45, 12.490, 18.310

Achromatopsia
46, 0.006, 296.813

Achromatomaly
45, 4.175, 19.837

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 12.490, 18.310 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(128, 99, 100)` looks like.

```
.text, #text, p{  
    color:rgb(128, 99, 100)  
}
```

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(128, 99, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 99, 100) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 12.490, 18.310 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(128, 99, 100) }
```

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

```
.border{ border-color:rgb(128, 99, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 99, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 99, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 99, 100);  
box-shadow:4px 4px 4px 4px rgb(128, 99,  
100) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 12.490, 18.310 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 99, 100) }
```

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

```
.background{ background-color: rgb(128, 99,  
100) }
```

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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