

Converting Colors

CIELCh(45, 2.639, 17.190)

Have a look what the booklet for
CIELCh(45, 2.639, 17.190) contains.

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Color

CIELCh(45, 2.490, 19.573)

Conversions

Conversions Part 1

Format	Color
Hex	6F6969
RGB	111, 105, 105
RGB Percent	44%, 41%, 41%
CMY	0.5642, 0.5877, 0.5877
CMYK	0.00, 0.05, 0.05, 0.56
HSL	0°, 3%, 42%
HSV	0°, 5%, 44%
XYZ	14.1948, 14.5417, 15.4597
YIQ	106.7940, 3.5760, 1.2720

Conversions

Conversions Part 2

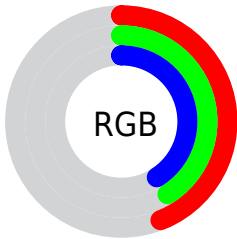
Format	Color
R_{YB}	111, 105, 105
Decimal	7301481
CIE _{Lab}	45.00, 2.35, 0.83
CIE _{LCh}	45, 2.490, 19.573
Yxy	14.5417, 0.3212, 0.3290
Android (android.graphics.Color)	4285491561 (0xFF6F6969)
YUV	106.7940, -0.8844, 3.6887
Hunter-Lab	38.1336, -0.2894, 2.6568

Details

The CIELCh color $[45, 2.490, 19.573]$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $[46, 2.411, 199.302]$, and the grayscale version is $[45, 0.006, 296.813]$.

A 20% lighter version of the original color is $[65, 2.701, 19.485]$, and $[25, 2.302, 19.728]$ is the 20% darker color. If you saturate the color by 10%, you get $[42, 7.369, 20.374]$, and if you desaturate by 10%, it is $[49, 2.042, 199.385]$.

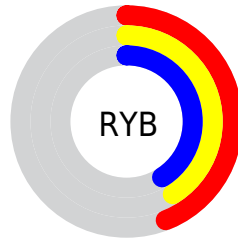
Distribution



Red (44%)

Green (41%)

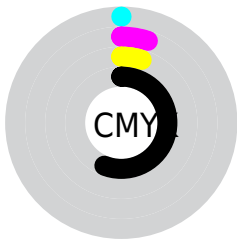
Blue (41%)



Red (44%)

Yellow (41%)

Blue (41%)

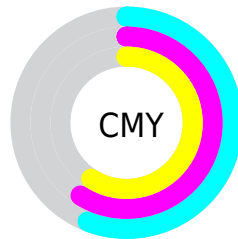


Cyan (0%)

Magenta (5%)

Yellow (5%)

Black (56%)



Cyan (56%)

Magenta (59%)

Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 2.490, 19.573 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, 2.490, 19.573 by changing the saturation by 10% instead.

■ 45, 2.490, 19.573 ■ 45, 2.490, 19.573

■ 100, 2.490, 19.573 ■ 35, 2.490, 19.573

■ 65, 2.490, 19.573 ■ 25, 2.490, 19.573

■ 75, 2.490, 19.573 ■ 15, 2.490, 19.573

■ 85, 2.490, 19.573 ■ 5, 2.490, 19.573

■ 95, 2.490, 19.573 ■ 0, 2.490, 19.573

■ 45, 2.490, 19.573 ■ 45, 2.490, 19.573

■ 42, 7.369, 20.374 ■ 49, 2.042, 199.385

■ 38, 12.611, 21.261 ■ 52, 6.249, 198.839

■ 35, 18.208, 22.383 ■ 56, 10.164,

■ 32, 24.119, 23.827	■ 198.473
■ 29, 30.260, 25.684	■ 59, 13.818, 198.183
■ 27, 36.491, 28.044	■ 63, 17.241, 197.948
■ 25, 42.623, 30.950	■ 66, 20.460, 197.755
■ 23, 48.358, 34.237	■ 70, 23.502, 197.594
■ 22, 52.575, 36.306	■ 73, 26.386, 197.459
	■ 77, 29.133, 197.344

Harmonies

Complementary

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



45, 2.490, 19.573



46, 2.411, 199.302

Rectangle

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



45, 2.490, 19.573



45, 2.490, 69.573



45, 2.490, 199.573



45, 2.490, 249.573

Sweetspot

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



45, 2.489, 19.601



59, 1.135, 19.168



45, 4.357, 324.683



31, 0.650, 19.126



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



45, 2.489, 19.601



58, 3.456, 19.665



46, 2.159, 74.691



22, 1.835, 19.677



24, 57.996, 37.797



52, 102.185, 40.003

Inverse Universe

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



46, 2.411, 199.302



60, 3.332, 199.244



46, 2.140, 256.170



23, 1.768, 199.234



45, 28.661, 196.438



89, 48.947, 196.441

Previews

White Background



This preview shows how the CIELCh color 45, 2.490, 19.573 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, 2.490, 19.573 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

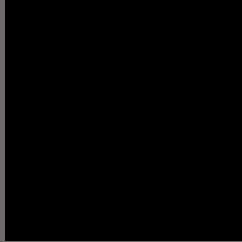
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

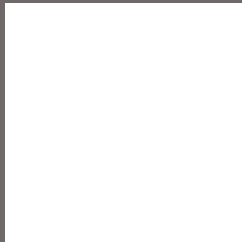
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 2.490, 19.573

Background



This preview shows how black text looks on a background with the CIELCh color 45, 2.490, 19.573.

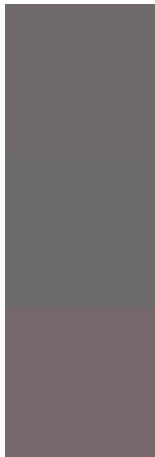


This preview shows how white text looks on a background with the CIELCh color 45, 2.490, 19.573.

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, 2.490, 19.573

Protanopia

45, 0.824, 19.084

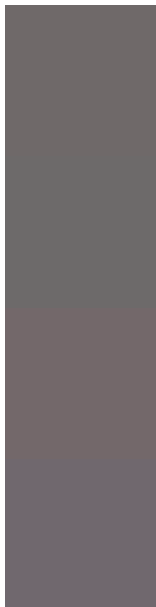
Deuteranopia

45, 6.113, 3.202



Tritanopia
45, 5.806, 324.783

Trichromacy



Original Color

45, 2.490, 19.573

Protanomaly

45, 1.237, 19.275

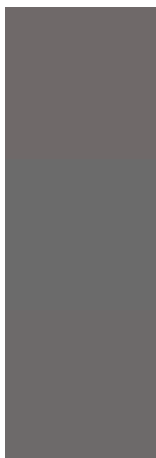
Deuteranomaly

45, 4.736, 5.414

Tritanomaly

45, 4.875, 332.733

Monochromacy



Original Color

45, 2.490, 19.573

Achromatopsia

45, 0.006, 296.813

Achromatomaly

45, 1.237, 19.275

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 2.490, 19.573 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(111, 105, 105)` looks like.

```
.text, #text, p{  
    color:rgb(111, 105, 105)  
}
```

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(111, 105, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(111, 105, 105) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 2.490, 19.573 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(111, 105, 105) }
```

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

```
.border{ border-color:rgb(111, 105, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(111, 105, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(111, 105, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(111, 105, 105);  
box-shadow:4px 4px 4px 4px rgb(111, 105,  
105) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 2.490, 19.573 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(111, 105, 105) }
```

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

```
.background{ background-color: rgb(111,  
105, 105) }
```

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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