

Converting Colors

CIELCh(45, 4.775, 20.638)

Have a look what the booklet for
CIELCh(45, 4.775, 20.638) contains.

CIELCh(45, 4.608, 19.902)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(45, 4.608, 19.902)

Conversions

Conversions Part 1

Format	Color
Hex	736868
RGB	115, 104, 104
RGB Percent	45%, 41%, 41%
CMY	0.5491, 0.5922, 0.5922
CMYK	0.00, 0.10, 0.10, 0.55
HSL	0°, 5%, 43%
HSV	0°, 10%, 45%
XYZ	14.5161, 14.5417, 15.1355
YIQ	107.2890, 6.5560, 2.3320

Conversions

Conversions Part 2

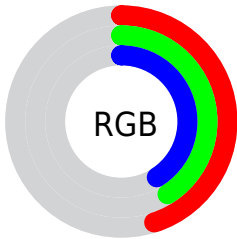
Format	Color
R_{YB}	115, 104, 104
Decimal	7563368
CIE _{Lab}	45.00, 4.33, 1.57
CIE _{LCh}	45, 4.608, 19.902
Yxy	14.5417, 0.3285, 0.3290
Android (android.graphics.Color)	4285753448 (0xFF736868)
YUV	107.2890, -1.6215, 6.7625
Hunter-Lab	38.1336, 1.2146, 3.1609

Details

The CIELCh color $45, 4.608, 19.902$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $48, 4.351, 199.011$, and the grayscale version is $45, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 4.660, 19.740$, and $25, 4.672, 20.229$ is the 20% darker color. If you saturate the color by 10%, you get $41, 9.783, 20.714$, and if you desaturate by 10%, it is $49, 0.201, 201.238$.

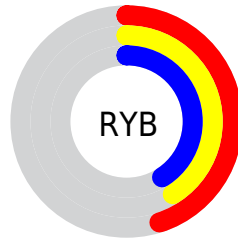
Distribution



Red (45%)

Green (41%)

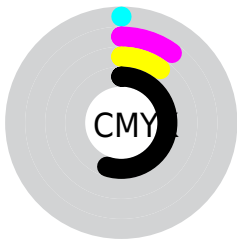
Blue (41%)



Red (45%)

Yellow (41%)

Blue (41%)

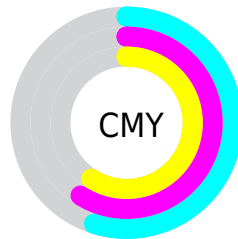


Cyan (0%)

Magenta (10%)

Yellow (10%)

Black (55%)



Cyan (55%)

Magenta (59%)

Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 4.608, 19.902 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, 4.608, 19.902 by changing the saturation by 10% instead.

 45, 4.608, 19.902	 45, 4.608, 19.902
 100, 4.608, 19.902	 35, 4.608, 19.902
 65, 4.608, 19.902	 25, 4.608, 19.902
 75, 4.608, 19.902	 15, 4.608, 19.902
 85, 4.608, 19.902	 5, 4.608, 19.902
 95, 4.608, 19.902	 0, 4.608, 19.902

 45, 4.608, 19.902	 45, 4.608, 19.902
 41, 9.783, 20.714	 49, 0.201, 201.238
 38, 15.332, 21.696	 52, 4.663, 199.012
 35, 21.236, 22.951	 56, 8.809, 198.597

■ 32, 27.432, 24.569

■ 60, 12.673,
198.278

■ 29, 33.808, 26.645

■ 63, 16.286,
198.022

■ 27, 40.199, 29.258

■ 25, 46.377, 32.398

■ 67, 19.678,
197.812

■ 23, 51.790, 35.504

■ 71, 22.876,
197.638

■ 23, 55.817, 37.309

■ 74, 25.903,
197.493

■ 78, 28.781,
197.370

Harmonies

Complementary

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



45, 4.608, 19.902



48, 4.351, 199.011

Rectangle

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



45, 4.608, 19.902



45, 4.608, 69.902



45, 4.608, 199.902



45, 4.608, 249.902

Sweetspot

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



45, 4.607, 19.918



61, 1.758, 19.342



45, 7.957, 324.918



32, 1.347, 19.432



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 4.607, 19.918



57, 6.646, 20.047



47, 3.972, 74.254



23, 2.750, 19.879



24, 59.039, 37.992



52, 102.984, 40.002

Inverse Universe

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



48, 4.351, 199.011



61, 6.210, 198.912



46, 3.890, 256.659



24, 2.605, 199.041



46, 29.103, 196.414



89, 49.340, 196.416

Previews

White Background



This preview shows how the CIELCh color 45, 4.608, 19.902 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, 4.608, 19.902 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

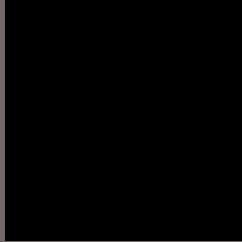
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 4.608, 19.902

Background



This preview shows how black text looks on a background with the CIELCh color 45, 4.608, 19.902.



This preview shows how white text looks on a background with the CIELCh color 45, 4.608, 19.902.

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, 4.608, 19.902

Protanopia

45, 1.369, 45.018

Deuteranopia

45, 6.337, 14.791



Tritanopia
45, 7.174, 338.684

Trichromacy



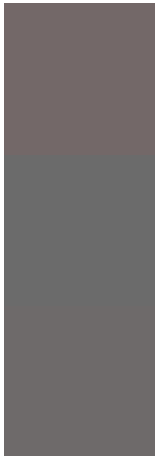
Original Color
45, 4.608, 19.902

Protanomaly
45, 2.490, 19.573

Deuteranomaly
45, 5.911, 14.341

Tritanomaly
45, 6.164, 351.307

Monochromacy



Original Color
45, 4.608, 19.902

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 1.652, 19.397

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 4.608, 19.902 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(115, 104, 104)` looks like.

```
.text, #text, p{  
    color:rgb(115, 104, 104)  
}
```

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(115, 104, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 104, 104) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 4.608, 19.902 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(115, 104, 104) }
```

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

```
.border{ border-color:rgb(115, 104, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 104, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 104, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 104, 104);  
box-shadow:4px 4px 4px 4px rgb(115, 104,  
104) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 4.608, 19.902 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 104, 104) }
```

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

```
.background{ background-color: rgb(115,  
104, 104) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor