

Converting Colors

CIELCh(45, 7.466, 22.117)

Have a look what the booklet for
CIELCh(45, 7.466, 22.117) contains.

CIELCh(45, 7.639, 20.325)	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, 7.639, 20.325)

Conversions

Conversions Part 1

Format	Color
Hex	786666
RGB	120, 102, 102
RGB Percent	47%, 40%, 40%
CMY	0.5282, 0.5988, 0.5988
CMYK	0.00, 0.15, 0.15, 0.53
HSL	0°, 8%, 44%
HSV	0°, 15%, 47%
XYZ	14.9822, 14.5417, 14.6651
YIQ	107.3820, 10.7280, 3.8160

Conversions

Conversions Part 2

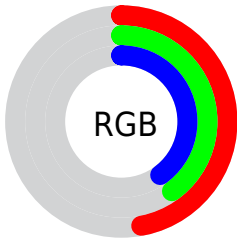
Format	Color
R_{YB}	120, 102, 102
Decimal	7890534
CIE Lab	45.00, 7.16, 2.65
CIE LCh	45, 7.639, 20.325
Yxy	14.5417, 0.3390, 0.3291
Android (android.graphics.Color)	4286080614 (0xFF786666)
YUV	107.3820, -2.6533, 11.0660
Hunter-Lab	38.1336, 3.3965, 3.8923

Details

The CIELCh color $45, 7.639, 20.325$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $49, 6.969, 198.707$, and the grayscale version is $46, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 7.450, 20.045$, and $25, 7.607, 20.837$ is the 20% darker color. If you saturate the color by 10%, you get $41, 13.224, 21.225$, and if you desaturate by 10%, it is $49, 2.442, 19.550$.

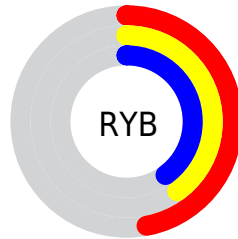
Distribution



Red (47%)

Green (40%)

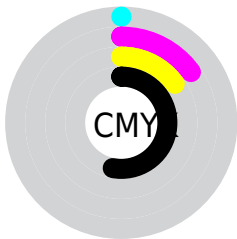
Blue (40%)



Red (47%)

Yellow (40%)

Blue (40%)

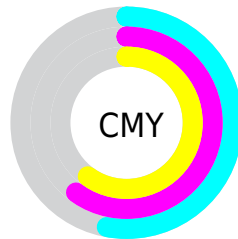


Cyan (0%)

Magenta (15%)

Yellow (15%)

Black (53%)



Cyan (53%)


Magenta (60%)

Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 7.639, 20.325 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, 7.639, 20.325 by changing the saturation by 10% instead.

 45, 7.639, 20.325  45, 7.639, 20.325

 100, 7.639, 20.325  35, 7.639, 20.325

 65, 7.639, 20.325  25, 7.639, 20.325

 75, 7.639, 20.325  15, 7.639, 20.325

 85, 7.639, 20.325  5, 7.639, 20.325

 95, 7.639, 20.325  0, 7.639, 20.325

 45, 7.639, 20.325  45, 7.639, 20.325

 41, 13.224, 21.225  49, 2.442, 19.550

 38, 19.192, 22.353  52, 2.379, 199.330

 35, 25.500, 23.807  56, 6.854, 198.798

■ 32, 32.054, 25.681

■ 60, 11.016,
198.434

■ 29, 38.705, 28.069

■ 64, 14.898,
198.146

■ 27, 45.245, 31.011

■ 25, 51.376, 34.379

■ 68, 18.534,
197.912

■ 24, 56.086, 36.917

■ 71, 21.954,
197.720

■ 24, 58.186, 37.830

■ 75, 25.184,
197.560

■ 79, 28.247,
197.425

Harmonies

Complementary

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



45, 7.639, 20.325



49, 6.969, 198.707

Rectangle

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



45, 7.639, 20.325



45, 7.639, 70.325



45, 7.639, 200.325



45, 7.639, 250.325

Sweetspot

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



45, 7.638, 20.335



62, 2.418, 19.464



46, 12.956, 325.211



32, 1.736, 19.529



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 7.638, 20.335



56, 11.482, 20.622



48, 6.531, 73.635



24, 2.851, 19.881



25, 60.073, 38.177



53, 103.780, 40.001

Inverse Universe

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



49, 6.969, 198.707



62, 10.240, 198.532



46, 6.300, 257.396



25, 2.700, 199.033



47, 29.539, 196.408



90, 49.724, 196.410

Previews

White Background



This preview shows how the CIELCh color 45, 7.639, 20.325 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, 7.639, 20.325 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

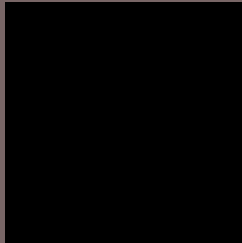
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 7.639, 20.325

Background



This preview shows how black text looks on a background with the CIELCh color 45, 7.639, 20.325.

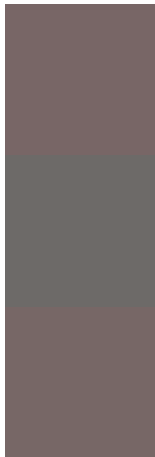


This preview shows how white text looks on a background with the CIELCh color 45, 7.639, 20.325.

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, 7.639, 20.325

Protanopia

45, 1.711, 63.291

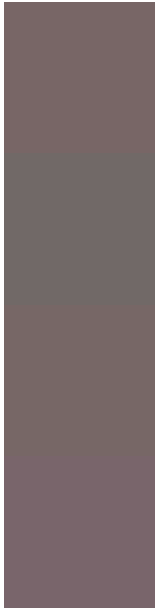
Deuteranopia

45, 6.810, 25.176



Tritanopia
45, 9.570, 350.873

Trichromacy



Original Color
45, 7.639, 20.325

Protanomaly
45, 3.551, 39.217

Deuteranomaly
45, 6.810, 25.176

Tritanomaly
45, 9.083, 357.494

Monochromacy



Original Color
45, 7.639, 20.325

Achromatopsia
46, 0.006, 296.813

Achromatomaly
45, 2.486, 19.569

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 7.639, 20.325 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(120, 102, 102)` looks like.

```
.text, #text, p{  
    color:rgb(120, 102, 102)  
}
```

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(120, 102, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 102, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 7.639, 20.325 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(120, 102, 102) }
```

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

```
.border{ border-color:rgb(120, 102, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 102, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 102, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 102, 102);  
box-shadow:4px 4px 4px 4px rgb(120, 102,  
102) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 7.639, 20.325 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 102, 102) }
```

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

```
.background{ background-color: rgb(120,  
102, 102) }
```

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