

Converting Colors

CIELCh(45, 1.011, 197.647)

Have a look what the booklet for
CIELCh(45, 1.011, 197.647) contains.

CIELCh(45, 1.220, 199.545)	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, 1.220, 199.545)

Conversions

Conversions Part 1

Format	Color
Hex	686B6B
RGB	104, 107, 107
RGB Percent	41%, 42%, 42%
CMY	0.5919, 0.5801, 0.5801
CMYK	0.03, 0.00, 0.00, 0.58
HSL	180°, 1%, 41%
HSV	180°, 3%, 42%
XYZ	13.6409, 14.5417, 16.0185
YIQ	106.1030, -1.7880, -0.6360

Conversions

Conversions Part 2

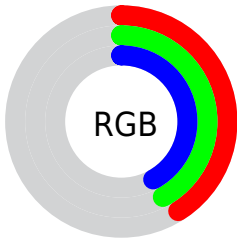
Format	Color
RYB	104, 106, 107
Decimal	6843243
CIELab	45.00, -1.15, -0.41
CIELCh	45, 1.220, 199.545
Yxy	14.5417, 0.3086, 0.3290
Android (android.graphics.Color)	4285033323 (0xFF686B6B)
YUV	106.1030, 0.4422, -1.8443
Hunter-Lab	38.1336, -2.8817, 1.7880

Details

The CIELCh color **45, 1.220, 199.545** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **44, 1.242, 19.231**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 1.139, 199.709**, and **25, 1.341, 199.342** is the 20% darker color. If you saturate the color by 10%, you get **44, 5.451, 198.764**, and if you desaturate by 10%, it is **46, 3.195, 19.632**.

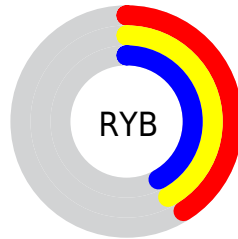
Distribution



Red (41%)

Green (42%)

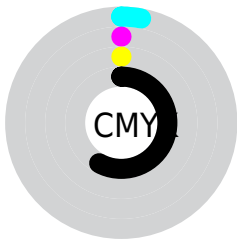
Blue (42%)



Red (41%)

Yellow (42%)

Blue (42%)

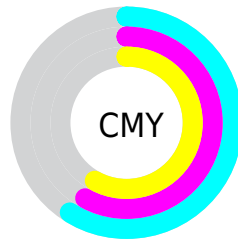


Cyan (3%)

Magenta (0%)

Yellow (0%)

Black (58%)



Cyan (59%)













Magenta (58%)

Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 1.220, 199.545 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, 1.220, 199.545 by changing the saturation by 10% instead.

 45, 1.220, 199.545	 45, 1.220, 199.545
 100, 1.220, 199.545	 35, 1.220, 199.545
 65, 1.220, 199.545	 25, 1.220, 199.545
 75, 1.220, 199.545	 15, 1.220, 199.545
 85, 1.220, 199.545	 5, 1.220, 199.545
 95, 1.220, 199.545	 0, 1.220, 199.545

 45, 1.220, 199.545	 45, 1.220, 199.545
 44, 5.451, 198.764	 46, 3.195, 19.632
 43, 9.437, 198.266	 47, 7.744, 20.255

■ 43, 13.118,
197.827

■ 48, 12.384, 20.846

■ 42, 16.431,
197.441

■ 49, 17.077, 21.440

■ 42, 19.316,
197.110

■ 50, 21.793, 22.035

■ 41, 21.727,
196.837

■ 53, 31.210, 23.221

■ 41, 23.632,
196.622

■ 55, 35.880, 23.806

■ 41, 25.021,
196.464

■ 56, 40.509, 24.381

■ 41, 25.925,
196.359

Harmonies

Complementary

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



45, 1.220, 199.545



44, 1.242, 19.231

Rectangle

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



45, 1.220, 199.545



45, 1.220, 249.545



45, 1.220, 19.545



45, 1.220, 69.545

Sweetspot

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



45, 1.221, 199.493



58, 0.545, 200.079



45, 2.170, 143.930



30, 0.312, 200.151



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



45, 1.221, 199.493



58, 1.629, 199.452



45, 1.068, 254.135



22, 0.977, 199.390



44, 28.249, 196.294



88, 48.611, 196.288

Inverse Universe

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



44, 1.242, 19.231



57, 1.660, 19.273



45, 1.067, 73.053



22, 0.999, 19.337



23, 56.936, 37.553



51, 101.365, 39.982

Previews

White Background



This preview shows how the CIELCh color 45, 1.220, 199.545 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, 1.220, 199.545 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

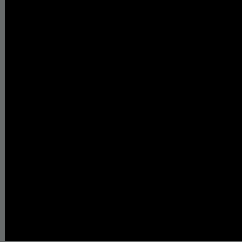
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

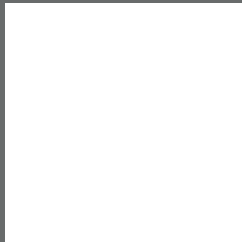
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 1.220, 199.545

Background



This preview shows how black text looks on a background with the CIELCh color 45, 1.220, 199.545.



This preview shows how white text looks on a background with the CIELCh color 45, 1.220, 199.545.

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, 1.220, 199.545

Protanopia

45, 0.824, 19.084

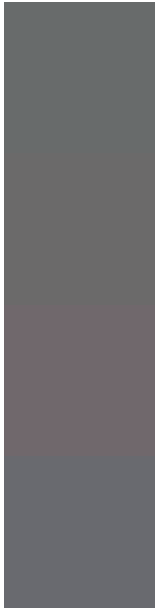
Deuteranopia

45, 6.164, 351.307



Tritanopia
45, 4.787, 286.098

Trichromacy



Original Color

45, 1.220, 199.545

Protanomaly

45, 0.412, 18.611

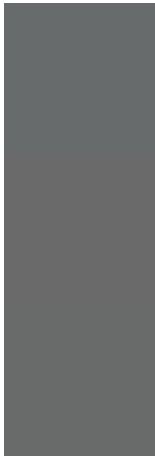
Deuteranomaly

45, 4.085, 344.144

Tritanomaly

45, 3.009, 282.939

Monochromacy



Original Color

45, 1.220, 199.545

Achromatopsia

45, 0.006, 296.813

Achromatomaly

45, 0.408, 200.207

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 1.220, 199.545 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(104, 107, 107)` looks like.

```
.text, #text, p{  
    color:rgb(104, 107, 107)  
}
```

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(104, 107, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 107, 107) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 1.220, 199.545 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(104, 107, 107) }
```

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

```
.border{ border-color:rgb(104, 107, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 107, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(104, 107, 107); -webkit-box-shadow:4px 4px 4px 4px rgb(104, 107, 107); box-shadow:4px 4px 4px 4px rgb(104, 107, 107) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 1.220, 199.545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 107, 107) }
```

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

```
.background{ background-color: rgb(104,  
107, 107) }
```

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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