

Converting Colors

CIELCh(45, 11.851, 159.462)

Have a look what the booklet for
CIELCh(45, 11.851, 159.462)
contains.

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Color

CIELCh(45, 12.210, 158.688)

Conversions

Conversions Part 1

Format	Color
Hex	597063
RGB	89, 112, 99
RGB Percent	35%, 44%, 39%
CMY	0.6519, 0.5618, 0.6127
CMYK	0.21, 0.00, 0.12, 0.56
HSL	146°, 11%, 39%
HSV	146°, 21%, 44%
XYZ	12.1041, 14.5417, 13.9126
YIQ	103.6410, -9.5350, -8.9190

Conversions

Conversions Part 2

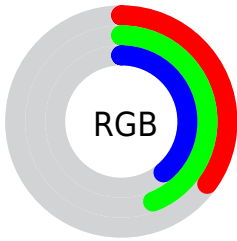
Format	Color
R_{YB}	89, 105, 112
Decimal	5861475
CIE _{Lab}	45.00, -11.38, 4.44
CIE _{LCh}	45, 12.210, 158.688
Yxy	14.5417, 0.2984, 0.3585
Android (android.graphics.Color)	4284051555 (0xFF597063)
YUV	103.6410, -2.2880, -12.8402
Hunter-Lab	38.1336, -10.0756, 5.0623

Details

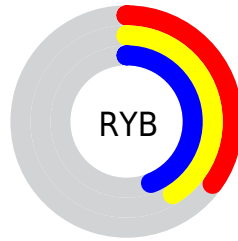
The CIELCh color $45, 12.210, 158.688$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $40, 12.428, 341.876$, and the grayscale version is $44, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 12.340, 159.354$, and $25, 11.840, 159.788$ is the 20% darker color. If you saturate the color by 10%, you get $44, 18.085, 157.741$, and if you desaturate by 10%, it is $46, 6.272, 159.544$.

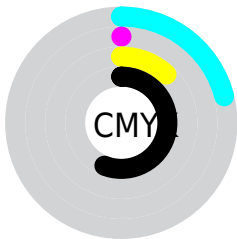
Distribution



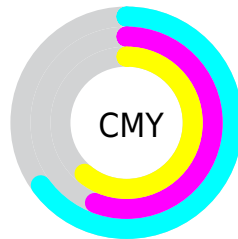
- Red (35%)
- Green (44%)
- Blue (39%)



- Red (35%)
- Yellow (41%)
- Blue (44%)



- Cyan (21%)
- Magenta (0%)
- Yellow (12%)
- Black (56%)



- Cyan (65%)
- Magenta (56%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 12.210, 158.688 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, 12.210, 158.688 by changing the saturation by 10% instead.

 45, 12.210,
158.688


 45, 12.210,
158.688


 100, 12.210,
158.688

 35, 12.210,
158.688

 65, 12.210,
158.688


 25, 12.210,
158.688

 75, 12.210,
158.688

 15, 12.210,
158.688

 85, 12.210,
158.688

 5, 12.210, 158.688

 95, 12.210,
158.688

 0, 12.210, 158.688

 45, 12.210,

 45, 12.210,

158.688

■ 44, 18.085,
157.741

■ 43, 23.814,
156.679

■ 43, 29.308,
155.479

■ 42, 34.474,
154.121

■ 42, 39.226,
152.586

■ 41, 43.493,
150.865

■ 41, 47.235,
148.959

■ 41, 50.466,
147.211

158.688

■ 46, 6.272, 159.544

■ 47, 0.336, 161.003

■ 48, 5.546, 340.893

■ 50, 11.333,
341.537

■ 51, 16.995,
342.114

■ 52, 22.515,
342.644

■ 54, 27.880,
343.134

■ 55, 33.087,
343.591

■ 57, 38.134,

Harmonies

Complementary

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



45, 12.210, 158.688



40, 12.428, 341.876

Rectangle

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



45, 12.210, 158.688



45, 12.210, 208.688



45, 12.210, 338.688



45, 12.210, 28.688

Sweetspot

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



45, 12.211, 158.687



59, 4.407, 159.915



46, 14.235, 125.771



31, 2.947, 159.875



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, 12.211, 158.687



57, 18.383, 158.218



45, 9.001, 192.544



23, 3.345, 159.675



44, 53.260, 147.024



86, 93.659, 145.662

Inverse Universe

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



40, 12.428, 341.876



50, 18.784, 342.322



40, 10.063, 15.536



22, 3.375, 340.919



25, 49.610, 354.537



54, 83.993, 356.675

Previews

White Background



This preview shows how the CIELCh color 45, 12.210, 158.688 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, 12.210, 158.688 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

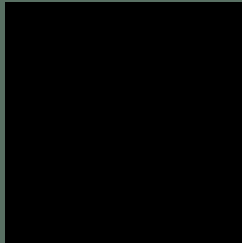
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 12.210, 158.688

Background



This preview shows how black text looks on a background with the CIELCh color 45, 12.210, 158.688.



This preview shows how white text looks on a background with the CIELCh color 45, 12.210, 158.688.

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

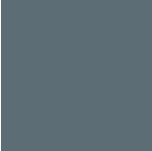
45, 12.210, 158.688

Protanopia

45, 6.308, 89.506

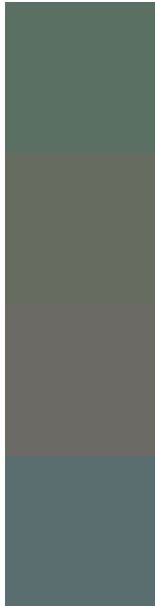
Deuteranopia

45, 6.912, 30.038



Tritanopia
45, 8.265, 239.570

Trichromacy



Original Color
45, 12.210, 158.688

Protanomaly
45, 6.881, 127.032

Deuteranomaly
45, 3.658, 96.381

Tritanomaly
45, 7.406, 203.242

Monochromacy



Original Color
45, 12.210, 158.688

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 4.474, 157.011

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 12.210, 158.688 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(89, 112, 99)` looks like.

```
.text, #text, p{  
    color:rgb(89, 112, 99)  
}
```

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(89, 112, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 112, 99) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 12.210, 158.688 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(89, 112, 99) }
```

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

```
.border{ border-color:rgb(89, 112, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 112, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 112, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 112, 99);  
box-shadow:4px 4px 4px 4px rgb(89, 112,  
99) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 12.210, 158.688 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 112, 99) }
```

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

```
.background{ background-color: rgb(89, 112,  
99) }
```

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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