

Converting Colors

CIELCh(45, 51.724, 110.012)

Have a look what the booklet for
CIELCh(45, 51.724, 110.012)
contains.

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Color

CIELCh(45, 51.652, 110.056)

Conversions

Conversions Part 1

Format	Color
Hex	647109
RGB	100, 113, 9
RGB Percent	39%, 44%, 4%
CMY	0.6078, 0.5568, 0.9646
CMYK	0.12, 0.00, 0.92, 0.56
HSL	68°, 85%, 24%
HSV	68°, 92%, 44%
XYZ	11.2120, 14.5417, 2.4748
YIQ	97.2570, 25.6360, -35.1000

Conversions

Conversions Part 2

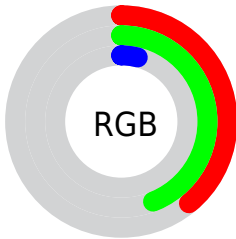
Format	Color
R_{YB}	9, 113, 22
Decimal	6582537
CIE _{Lab}	45.00, -17.71, 48.52
CIE _{LCh}	45, 51.652, 110.056
Yxy	14.5417, 0.3972, 0.5151
Android (android.graphics.Color)	4284772617 (0xFF647109)
YUV	97.2570, -43.5107, 2.4056
Hunter-Lab	38.1336, -14.2514, 22.8458

Details

The CIELCh color **45, 51.652, 110.056** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **13, 68.024, 306.023**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 51.890, 110.074**, and **25, 37.085, 115.974** is the 20% darker color. If you saturate the color by 10%, you get **45, 53.704, 110.128**, and if you desaturate by 10%, it is **45, 48.650, 110.047**.

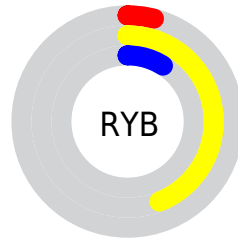
Distribution



Red (39%)

Green (44%)

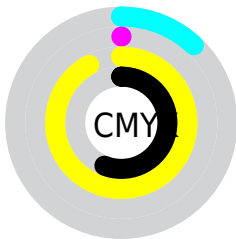
Blue (4%)



Red (4%)

Yellow (44%)

Blue (9%)

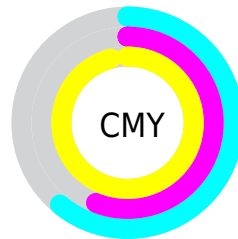


Cyan (12%)

Magenta (0%)

Yellow (92%)

Black (56%)



Cyan (61%)


Magenta (56%)


Yellow (96%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 51.652, 110.056 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, 51.652, 110.056 by changing the saturation by 10% instead.


 45, 51.652,
110.056


 45, 51.652,
110.056


 100, 51.652,
110.056


 35, 51.652,
110.056

 65, 51.652,
110.056


 25, 51.652,
110.056

 75, 51.652,
110.056

 15, 51.652,
110.056

 85, 51.652,
110.056

 5, 51.652, 110.056

 95, 51.652,
110.056

 0, 51.652, 110.056

 45, 51.652,

 45, 51.652,

110.056

■ 45, 53.704,
110.128

110.056

■ 45, 48.650,
110.047

■ 45, 44.479,
110.295

■ 46, 39.407,
110.742

■ 46, 33.704,
111.325

■ 46, 27.586,
111.996

■ 46, 21.203,
112.716

■ 47, 14.660,
113.458

■ 47, 8.025, 114.203

Harmonies

Complementary

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



45, 51.652, 110.056



13, 68.024, 306.023

Rectangle

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



45, 51.652, 110.056



45, 51.652, 160.056



45, 51.652, 290.056



45, 51.652, 340.056

Sweetspot

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



45, 51.652, 110.058



60, 23.165, 112.957



24, 50.118, 39.167



31, 15.856, 112.708



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, 51.652, 110.058



58, 65.243, 110.316



42, 58.820, 130.446



23, 3.734, 114.427



47, 56.012, 110.172



92, 95.766, 110.576

Inverse Universe

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



13, 68.024, 306.023



17, 88.384, 306.827



19, 63.418, 315.532



21, 3.809, 295.782



12, 75.780, 306.935



32, 129.979, 306.659

Previews

White Background



This preview shows how the CIELCh color 45, 51.652, 110.056 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, 51.652, 110.056 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

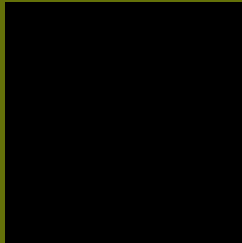
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 51.652, 110.056

Background



This preview shows how black text looks on a background with the CIELCh color 45, 51.652, 110.056.



This preview shows how white text looks on a background with the CIELCh color 45, 51.652, 110.056.

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, 51.652, 110.056

Protanopia

45, 50.406, 95.667

Deuteranopia

45, 46.750, 83.060



Tritanopia
45, 4.948, 304.924

Trichromacy



Original Color
45, 51.652, 110.056

Protanomaly
45, 50.468, 100.803

Deuteranomaly
45, 47.075, 93.118

Tritanomaly
45, 19.469, 111.363

Monochromacy



Original Color
45, 51.652, 110.056

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 22.571, 112.675

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 51.652, 110.056 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(100, 113, 9)` looks like.

```
.text, #text, p{  
    color:rgb(100, 113, 9)  
}
```

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(100, 113, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 113, 9) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 51.652, 110.056 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(100, 113, 9) }
```

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

```
.border{ border-color:rgb(100, 113, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 113, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 113, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 113, 9);  
box-shadow:4px 4px 4px 4px rgb(100, 113,  
9) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 51.652, 110.056 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 113, 9) }
```

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

```
.background{ background-color: rgb(100,  
113, 9) }
```

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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