

Converting Colors

CIELCh(45, 81.345, 45.127)

Have a look what the booklet for
CIELCh(45, 81.345, 45.127) contains.

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Color

CIELCh(45, 81.139, 44.901)

Conversions

Conversions Part 1

Format	Color
Hex	C83100
RGB	200, 49, 0
RGB Percent	78%, 19%, 0%
CMY	0.2145, 0.8067, 0.9990
CMYK	0.00, 0.75, 1.00, 0.21
HSL	15°, 100%, 39%
HSV	15°, 100%, 79%
XYZ	25.0105, 14.5417, 1.4956
YIQ	88.5630, 105.7250, 16.7730

Conversions

Conversions Part 2

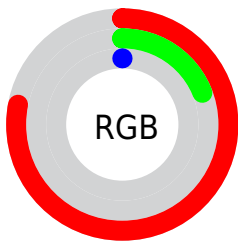
Format	Color
R_{YB}	200, 65, 0
Decimal	13119744
CIE _{Lab}	45.00, 57.47, 57.27
CIE _{LCh}	45, 81.139, 44.901
Yxy	14.5417, 0.6093, 0.3543
Android (android.graphics.Color)	4291309824 (0xFFC83100)
YUV	88.5630, -43.6616, 97.7302
Hunter-Lab	38.1336, 50.3381, 24.3682

Details

The CIELCh color **45, 81.139, 44.901** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **58, 37.983, 245.481**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 76.997, 45.709**, and **27, 64.464, 38.843** is the 20% darker color. If you saturate the color by 10%, you get **45, 81.223, 44.906**, and if you desaturate by 10%, it is **47, 74.064, 45.224**.

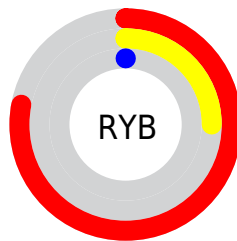
Distribution



Red (78%)

Green (19%)

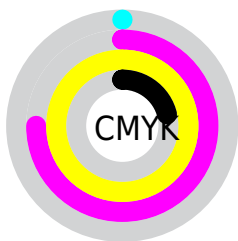
Blue (0%)



Red (78%)

Yellow (25%)

Blue (0%)

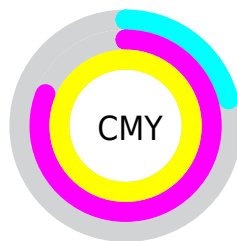


Cyan (0%)

Magenta (75%)

Yellow (100%)

Black (21%)



Cyan (21%)


Magenta (81%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 81.139, 44.901 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, 81.139, 44.901 by changing the saturation by 10% instead.


 45, 81.139, 44.901

 45, 81.139, 44.901

 100, 81.139,
44.901


 35, 81.139, 44.901

 65, 81.139, 44.901


 25, 81.139, 44.901

 75, 81.139, 44.901


 15, 81.139, 44.901

 85, 81.139, 44.901

 5, 81.139, 44.901

 95, 81.139, 44.901

 0, 81.139, 44.901

 45, 81.139, 44.901

 45, 81.139, 44.901

 45, 81.223, 44.906

 47, 74.064, 45.224

 50, 65.237, 45.026

■ 53, 55.648, 44.558

■ 56, 46.109, 44.140

■ 60, 36.977, 43.882

■ 64, 28.401, 43.802

■ 68, 20.427, 43.879

■ 72, 13.048, 44.083

■ 76, 6.229, 44.361

Harmonies

Complementary

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



45, 81.139, 44.901



58, 37.983, 245.481

Rectangle

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



45, 81.139, 44.901



45, 81.139, 94.901



45, 81.139, 224.901



45, 81.139, 274.901

Sweetspot

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



45, 81.136, 44.903



84, 25.008, 43.871



45, 80.442, 340.324



43, 17.363, 43.824



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 81.136, 44.903



57, 97.918, 44.510



64, 69.503, 81.774



40, 3.548, 44.375



37, 69.392, 45.336



5, 13.867, 34.151

Inverse Universe

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



58, 37.983, 245.481



73, 45.755, 246.263



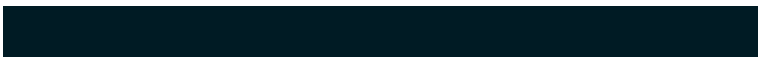
31, 90.337, 300.044



41, 3.358, 225.400



48, 32.518, 244.779



8, 11.134, 234.642

Previews

White Background



This preview shows how the CIELCh color 45, 81.139, 44.901 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 CIELCh color 45, 81.139, 44.901 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, 81.139, 44.901

Background



This preview shows how black text looks on a background with the CIELCh color 45, 81.139, 44.901.



This preview shows how white text looks on a background with the CIELCh color 45, 81.139, 44.901.

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, 81.139, 44.901

Protanopia

45, 45.929, 95.675

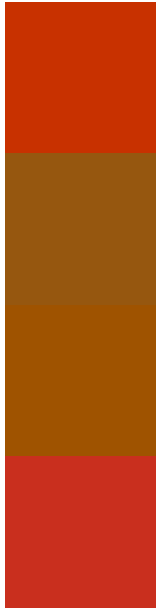
Deuteranopia

45, 52.467, 84.481



Tritanopia
45, 70.698, 32.440

Trichromacy



Original Color
45, 81.139, 44.901

Protanomaly
43, 52.302, 66.274

Deuteranomaly
44, 59.262, 62.898

Tritanomaly
45, 75.226, 38.526

Monochromacy



Original Color
45, 81.139, 44.901

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 29.277, 44.389

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 81.139, 44.901 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(200, 49, 0)` looks like.

```
.text, #text, p{  
    color:rgb(200, 49, 0)  
}
```

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(200, 49, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 49, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 81.139, 44.901 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(200, 49, 0) }
```

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

```
.border{ border-color:rgb(200, 49, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 49, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 49, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 49, 0);  
box-shadow:4px 4px 4px 4px rgb(200, 49, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 81.139, 44.901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 49, 0) }
```

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

```
.background{ background-color: rgb(200, 49,  
0) }
```

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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