

Converting Colors

CIELCh(45, 53.334, 80.917)

Have a look what the booklet for
CIELCh(45, 53.334, 80.917) contains.

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Color

CIELCh(45, 53.024, 81.188)

Conversions

Conversions Part 1

Format	Color
Hex	8B6400
RGB	139, 100, 0
RGB Percent	55%, 39%, 0%
CMY	0.4559, 0.6086, 1.0000
CMYK	0.00, 0.28, 1.00, 0.46
HSL	43°, 100%, 27%
HSV	43°, 100%, 54%
XYZ	15.1424, 14.5417, 2.0005
YIQ	100.2610, 55.3440, -22.8320

Conversions

Conversions Part 2

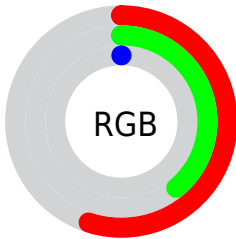
Format	Color
R _Y B	54, 139, 0
Decimal	9135104
CIE Lab	45.00, 8.12, 52.40
CIE LCh	45, 53.024, 81.188
Yxy	14.5417, 0.4779, 0.4590
Android (android.graphics.Color)	4287325184 (0xFF8B6400)
YUV	100.2610, -49.4287, 33.9741
Hunter-Lab	38.1336, 4.1466, 23.5832

Details

The CIELCh color **45, 53.024, 81.188** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **21, 65.731, 298.490**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 53.320, 81.406**, and **25, 36.050, 75.724** is the 20% darker color. If you saturate the color by 10%, you get **45, 52.955, 81.173**, and if you desaturate by 10%, it is **46, 50.220, 82.979**.

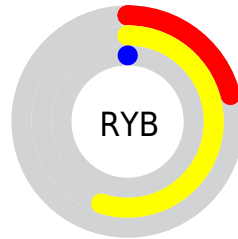
Distribution



Red (55%)

Green (39%)

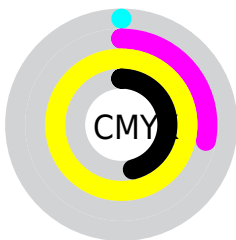
Blue (0%)



Red (21%)

Yellow (55%)

Blue (0%)

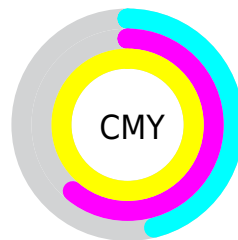


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (46%)



Cyan (46%)

Magenta (61%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 53.024, 81.188 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, 53.024, 81.188 by changing the saturation by 10% instead.

■ 45, 53.024, 81.188

■ 45, 53.024, 81.188

■ 100, 53.024,
81.188

■ 35, 53.024, 81.188

■ 65, 53.024, 81.188

■ 25, 53.024, 81.188

■ 75, 53.024, 81.188

■ 15, 53.024, 81.188

■ 85, 53.024, 81.188

■ 5, 53.024, 81.188

■ 95, 53.024, 81.188

■ 0, 53.024, 81.188

■ 45, 53.024, 81.188

■ 45, 53.024, 81.188

■ 45, 52.955, 81.173

■ 46, 50.220, 82.979

■ 47, 46.488, 84.654

■ 48, 41.591, 86.152

■ 50, 36.011, 87.553

■ 51, 30.084, 88.899

■ 52, 24.016, 90.207

■ 54, 17.924, 91.481

■ 55, 11.871, 92.719

■ 56, 5.889, 93.911

Harmonies

Complementary

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



45, 53.024, 81.188



21, 65.731, 298.490

Rectangle

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



45, 53.024, 81.188



45, 53.024, 131.188



45, 53.024, 261.188



45, 53.024, 311.188

Sweetspot

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



45, 52.955, 81.173



68, 22.280, 91.398



28, 55.772, 21.137



35, 15.351, 90.927



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



45, 52.955, 81.173



58, 64.299, 80.615



54, 63.427, 115.344



28, 3.300, 94.009



43, 51.255, 81.281



1, 1.526, 95.097

Inverse Universe

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



21, 65.731, 298.490



29, 81.710, 299.223



16, 83.434, 307.576



27, 3.316, 276.245



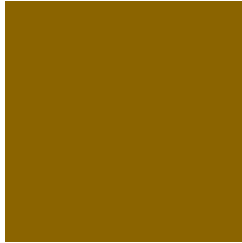
20, 63.325, 298.343



0, 1.527, 275.103

Previews

White Background



This preview shows how the CIELCh color 45, 53.024, 81.188 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, 53.024, 81.188 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, 53.024, 81.188

Background



This preview shows how black text looks on a background with the CIELCh color 45, 53.024, 81.188.



This preview shows how white text looks on a background with the CIELCh color 45, 53.024, 81.188.

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, 53.024, 81.188

Protanopia

45, 49.802, 95.099

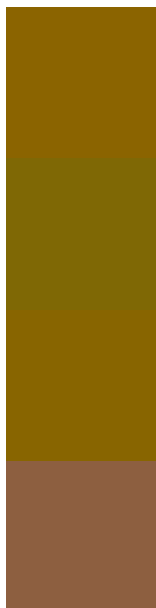
Deuteranopia

45, 52.339, 83.827



Tritanopia
45, 21.924, 11.751

Trichromacy



Original Color
45, 53.024, 81.188

Protanomaly
45, 50.381, 89.849

Deuteranomaly
45, 52.527, 83.323

Tritanomaly
45, 29.413, 59.047

Monochromacy



Original Color
45, 53.024, 81.188

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 22.451, 89.877

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 53.024, 81.188 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(139, 100, 0)` looks like.

```
.text, #text, p{  
    color:rgb(139, 100, 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(139, 100, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 100, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 53.024, 81.188 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(139, 100, 0) }
```

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

```
.border{ border-color:rgb(139, 100, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 100, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 100, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 100, 0);  
box-shadow:4px 4px 4px 4px rgb(139, 100,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 53.024, 81.188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 100, 0) }
```

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

```
.background{ background-color: rgb(139,  
100, 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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