

Converting Colors

CIELCh(40, 45.488, 118.640)

Have a look what the booklet for
CIELCh(40, 45.488, 118.640)
contains.

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Color

CIELCh(40, 45.328, 118.262)

Conversions

Conversions Part 1

Format	Color
Hex	4E6615
RGB	78, 102, 21
RGB Percent	31%, 40%, 8%
CMY	0.6929, 0.5988, 0.9163
CMYK	0.23, 0.00, 0.79, 0.60
HSL	78°, 65%, 24%
HSV	78°, 79%, 40%
XYZ	8.0872, 11.2510, 2.4714
YIQ	85.5900, 11.6970, -30.2790

Conversions

Conversions Part 2

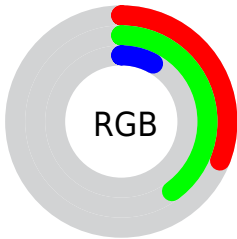
Format	Color
R_{YB}	21, 102, 45
Decimal	5137941
CIE _{Lab}	40.00, -21.46, 39.92
CIE _{LCh}	40, 45.328, 118.262
Yxy	11.2510, 0.3708, 0.5159
Android (android.graphics.Color)	4283328021 (0xFF4E6615)
YUV	85.5900, -31.8429, -6.6564
Hunter-Lab	33.5425, -15.6621, 19.1112

Details

The CIELCh color $40, 45.328, 118.262$ is a dark color, and the websafe version is hex 336600 . A complement of this color would be $16, 54.434, 307.637$, and the grayscale version is $37, 0.005, 296.813$.

A 20% lighter version of the original color is $60, 45.252, 118.060$, and $20, 34.067, 125.472$ is the 20% darker color. If you saturate the color by 10%, you get $40, 48.795, 118.510$, and if you desaturate by 10%, it is $40, 40.912, 118.326$.

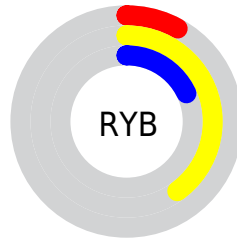
Distribution



Red (31%)

Green (40%)

Blue (8%)



Red (8%)

Yellow (40%)

Blue (18%)

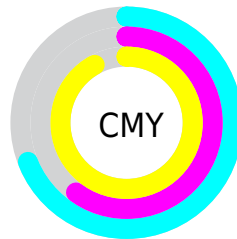


Cyan (23%)

Magenta (0%)

Yellow (79%)

Black (60%)



Cyan (69%)


Magenta (60%)


Yellow (92%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 45.328, 118.262 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 40, 45.328, 118.262 by changing the saturation by 10% instead.


 40, 45.328,
118.262


 40, 45.328,
118.262


 100, 45.328,
118.262


 30, 45.328,
118.262

 60, 45.328,
118.262


 20, 45.328,
118.262

 70, 45.328,
118.262

 10, 45.328,
118.262

 80, 45.328,
118.262

 0, 45.328, 118.262

 90, 45.328,
118.262

 40, 45.328,

 40, 45.328,

118.262

■ 40, 48.795,
118.510

■ 40, 51.700,
118.896

■ 39, 51.963,
118.919

118.262

■ 40, 40.912,
118.326

■ 41, 35.797,
118.607

■ 41, 30.204,
119.027

■ 41, 24.301,
119.529

■ 42, 18.206,
120.072

■ 42, 11.999,
120.628

■ 43, 5.735, 121.182

■ 43, 0.546, 301.657

Harmonies

Complementary

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



40, 45.328, 118.262



16, 54.434, 307.637

Rectangle

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



40, 45.328, 118.262



40, 45.328, 168.262



40, 45.328, 298.262



40, 45.328, 348.262

Sweetspot

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



40, 45.328, 118.264



54, 18.589, 120.320



26, 36.173, 47.506



27, 12.655, 120.179



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



40, 45.328, 118.264



51, 61.257, 119.009



38, 51.862, 134.173



21, 3.514, 121.194



44, 56.425, 119.103



88, 98.362, 119.947

Inverse Universe

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



16, 54.434, 307.637



17, 76.984, 308.348



22, 52.906, 320.842



19, 3.574, 302.157



13, 71.706, 308.672



34, 125.237, 308.129

Previews

White Background



This preview shows how the CIELCh color 40, 45.328, 118.262 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 40, 45.328, 118.262 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

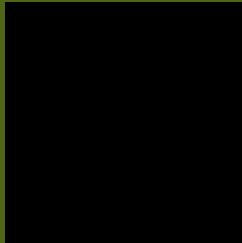
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 40, 45.328, 118.262

Background



This preview shows how black text looks on a background with the CIELCh color 40, 45.328, 118.262.



This preview shows how white text looks on a background with the CIELCh color 40, 45.328, 118.262.

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

40, 45.328, 118.262

Protanopia

40, 41.615, 95.334

Deuteranopia

40, 38.519, 81.992



Tritanopia
40, 5.753, 257.439

Trichromacy



Original Color
40, 45.328, 118.262

Protanomaly
40, 41.982, 104.371

Deuteranomaly
40, 38.689, 96.680

Tritanomaly
40, 16.328, 130.072

Monochromacy



Original Color
40, 45.328, 118.262

Achromatopsia
37, 0.005, 296.813

Achromatomaly
38, 18.646, 120.051

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 45.328, 118.262 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(78, 102, 21)` looks like.

```
.text, #text, p{  
    color:rgb(78, 102, 21)  
}
```

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(78, 102, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 102, 21) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 45.328, 118.262 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(78, 102, 21) }
```

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

```
.border{ border-color:rgb(78, 102, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 102, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 102, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 102, 21);  
box-shadow:4px 4px 4px 4px rgb(78, 102,  
21) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 45.328, 118.262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 102, 21) }
```

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

```
.background{ background-color: rgb(78, 102,  
21) }
```

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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