

Converting Colors

CIELCh(40, 49.453, 133.636)

Have a look what the booklet for
CIELCh(40, 49.453, 133.636)
contains.

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Color

CIELCh(40, 49.639, 133.728)

Conversions

Conversions Part 1

Format	Color
Hex	316B1E
RGB	49, 107, 30
RGB Percent	19%, 42%, 12%
CMY	0.8080, 0.5806, 0.8825
CMYK	0.54, 0.00, 0.72, 0.58
HSL	105°, 56%, 27%
HSV	105°, 72%, 42%
XYZ	6.7509, 11.2510, 3.0411
YIQ	80.8800, -9.8510, -36.2430

Conversions

Conversions Part 2

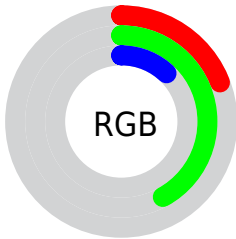
Format	Color
R_{YB}	30, 107, 88
Decimal	3238686
CIE _{Lab}	40.00, -34.31, 35.87
CIE _{LCh}	40, 49.639, 133.728
Yxy	11.2510, 0.3208, 0.5347
Android (android.graphics.Color)	4281428766 (0xFF316B1E)
YUV	80.8800, -25.0838, -27.9588
Hunter-Lab	33.5425, -22.7737, 18.1042

Details

The CIELCh color $40, 49.639, 133.728$ is a dark color, and the websafe version is hex 336600 . A complement of this color would be $24, 51.109, 319.878$, and the grayscale version is $34, 0.005, 296.813$.

A 20% lighter version of the original color is $60, 49.501, 133.938$, and $21, 41.286, 137.348$ is the 20% darker color. If you saturate the color by 10%, you get $40, 54.609, 133.472$, and if you desaturate by 10%, it is $40, 43.778, 134.182$.

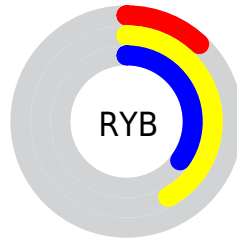
Distribution



 Red (19%)

 Green (42%)

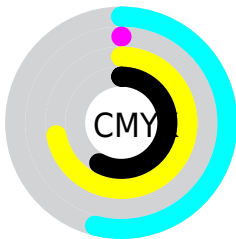
 Blue (12%)




 Red (12%)

 Yellow (42%)

 Blue (35%)

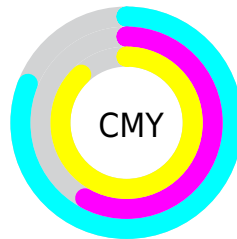


 Cyan (54%)


 Magenta (0%)

 Yellow (72%)

 Black (58%)



 Cyan (81%)

 Magenta (58%)

 Yellow (88%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 49.639, 133.728 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, 49.639, 133.728 by changing the saturation by 10% instead.

 40, 49.639,
133.728


 40, 49.639,
133.728

 100, 49.639,
133.728


 30, 49.639,
133.728

 60, 49.639,
133.728


 20, 49.639,
133.728

 70, 49.639,
133.728

 10, 49.639,
133.728

 80, 49.639,
133.728

 0, 49.639, 133.728

 90, 49.639,
133.728

 40, 49.639,

 40, 49.639,

133.728

133.728

■ 40, 54.609,
133.472

■ 40, 43.778,
134.182

■ 39, 58.423,
133.513

■ 41, 37.291,
134.734

■ 39, 61.102,
133.444

■ 42, 30.394,
135.316

■ 42, 23.253,
135.884

■ 43, 15.989,
136.416

■ 44, 8.693, 136.903

■ 45, 1.431, 137.404

■ 46, 5.747, 317.674

■ 47, 12.810,

Harmonies

Complementary

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



40, 49.639, 133.728



24, 51.109, 319.878

Rectangle

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



40, 49.639, 133.728



40, 49.639, 183.728



40, 49.639, 313.728



40, 49.639, 3.728

Sweetspot

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



40, 49.639, 133.729



56, 19.981, 136.384



38, 35.194, 88.532



29, 13.532, 136.282



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



40, 49.639, 133.729



51, 69.488, 133.462



40, 44.797, 145.157



22, 4.072, 137.043



43, 65.349, 133.569



85, 113.384, 134.222

Inverse Universe

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



24, 51.109, 319.878



29, 71.239, 319.776



26, 43.822, 337.540



21, 4.098, 317.738



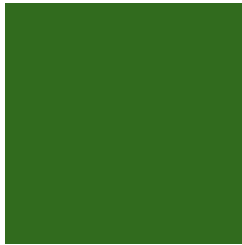
22, 66.736, 319.426



48, 115.102, 318.956

Previews

White Background



This preview shows how the CIELCh color 40, 49.639, 133.728 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 40, 49.639, 133.728 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, 49.639, 133.728

Background



This preview shows how black text looks on a background with the CIELCh color 40, 49.639, 133.728.



This preview shows how white text looks on a background with the CIELCh color 40, 49.639, 133.728.

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, 49.639, 133.728

Protanopia

40, 38.338, 95.925

Deuteranopia

40, 34.128, 80.842



Tritanopia
40, 13.644, 219.084

Trichromacy



Original Color
40, 49.639, 133.728

Protanomaly
39, 40.280, 113.799

Deuteranomaly
39, 35.605, 107.770

Tritanomaly
40, 22.602, 158.532

Monochromacy



Original Color
40, 49.639, 133.728

Achromatopsia
34, 0.005, 296.813

Achromatomaly
36, 19.597, 135.872

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 49.639, 133.728 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(49, 107, 30)` looks like.

```
.text, #text, p{  
    color:rgb(49, 107, 30)  
}
```

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(49, 107, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 107, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 49.639, 133.728 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(49, 107, 30) }
```

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

```
.border{ border-color:rgb(49, 107, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 107, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 107, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 107, 30);  
box-shadow:4px 4px 4px 4px rgb(49, 107,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 49.639, 133.728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 107, 30) }
```

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

```
.background{ background-color: rgb(49, 107,  
30) }
```

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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