

Converting Colors

CIELCh(45, 49.196, 129.113)

Have a look what the booklet for
CIELCh(45, 49.196, 129.113)
contains.

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Color

CIELCh(45, 49.158, 129.009)

Conversions

Conversions Part 1

Format	Color
Hex	477625
RGB	71, 118, 37
RGB Percent	28%, 46%, 15%
CMY	0.7200, 0.5357, 0.8534
CMYK	0.40, 0.00, 0.68, 0.54
HSL	95°, 52%, 31%
HSV	95°, 68%, 46%
XYZ	9.4936, 14.5417, 4.0888
YIQ	94.7130, -2.0110, -35.1550

Conversions

Conversions Part 2

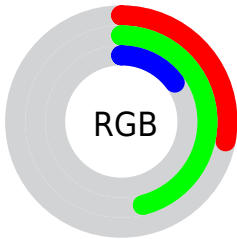
Format	Color
RYB	37, 118, 84
Decimal	4683301
CIELab	45.00, -30.94, 38.20
CIELCh	45, 49.158, 129.009
Yxy	14.5417, 0.3376, 0.5171
Android (android.graphics.Color)	4282873381 (0xFF477625)
YUV	94.7130, -28.4525, -20.7963
Hunter-Lab	38.1336, -22.2952, 20.3363

Details

The CIELCh color **45, 49.158, 129.009** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **25, 53.015, 314.603**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 49.514, 129.034**, and **25, 44.234, 132.398** is the 20% darker color. If you saturate the color by 10%, you get **45, 54.660, 128.966**, and if you desaturate by 10%, it is **46, 42.845, 129.277**.

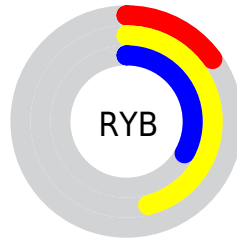
Distribution



 Red (28%)

 Green (46%)

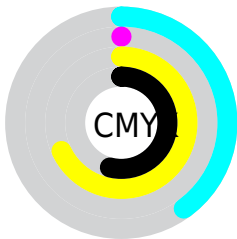
 Blue (15%)



 Red (15%)

 Yellow (46%)

 Blue (33%)

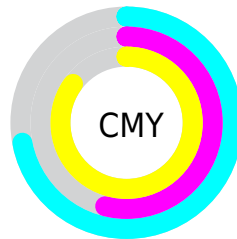


 Cyan (40%)


 Magenta (0%)

 Yellow (68%)

 Black (54%)



 Cyan (72%)


 Magenta (54%)


 Yellow (85%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 49.158, 129.009 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, 49.158, 129.009 by changing the saturation by 10% instead.


 45, 49.158,
129.009


 45, 49.158,
129.009


 100, 49.158,
129.009


 35, 49.158,
129.009

 65, 49.158,
129.009


 25, 49.158,
129.009

 75, 49.158,
129.009

 15, 49.158,
129.009

 85, 49.158,
129.009

 5, 49.158, 129.009

 95, 49.158,
129.009

 0, 49.158, 129.009

 45, 49.158,

 45, 49.158,

129.009

129.009

■ 45, 54.660,
128.966

■ 46, 42.845,
129.277

■ 44, 59.053,
129.258

■ 46, 35.982,
129.672

■ 44, 62.474,
129.780

■ 47, 28.772,
130.126

■ 44, 63.015,
129.835

■ 47, 21.360,
130.596

■ 48, 13.850,
131.057

■ 49, 6.317, 131.497

■ 50, 1.188, 311.796

■ 51, 8.625, 312.229

■ 52, 15.967,

Harmonies

Complementary

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



45, 49.158, 129.009



25, 53.015, 314.603

Rectangle

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



45, 49.158, 129.009



45, 49.158, 179.009



45, 49.158, 309.009



45, 49.158, 359.009

Sweetspot

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



45, 49.158, 129.010



61, 19.481, 130.916



38, 33.384, 73.381



31, 13.107, 130.819



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 49.158, 129.010



57, 68.957, 129.080



44, 52.854, 140.204



24, 4.191, 131.470



45, 64.570, 129.890



88, 110.479, 130.736

Inverse Universe

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



25, 53.015, 314.603



29, 75.286, 314.704



30, 51.811, 329.809



23, 4.235, 312.166



19, 71.030, 314.265



43, 120.995, 313.666

Previews

White Background



This preview shows how the CIELCh color 45, 49.158, 129.009 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, 49.158, 129.009 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

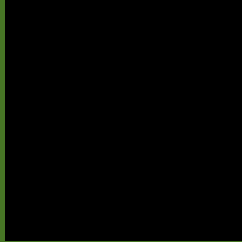
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 49.158, 129.009

Background



This preview shows how black text looks on a background with the CIELCh color 45, 49.158, 129.009.



This preview shows how white text looks on a background with the CIELCh color 45, 49.158, 129.009.

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, 49.158, 129.009

Protanopia
45, 40.716, 95.348

Deuteranopia
45, 37.186, 81.005



Tritanopia
45, 10.907, 224.527

Trichromacy



Original Color
45, 49.158, 129.009

Protanomaly
45, 42.130, 110.121

Deuteranomaly
44, 37.352, 102.554

Tritanomaly
45, 20.720, 151.394

Monochromacy



Original Color
45, 49.158, 129.009

Achromatopsia
40, 0.006, 296.813

Achromatomaly
42, 19.594, 131.260

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 49.158, 129.009 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(71, 118, 37)` looks like.

```
.text, #text, p{  
    color:rgb(71, 118, 37)  
}
```

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(71, 118, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 118, 37) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 49.158, 129.009 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(71, 118, 37) }
```

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

```
.border{ border-color:rgb(71, 118, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 118, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 118, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 118, 37);  
box-shadow:4px 4px 4px 4px rgb(71, 118,  
37) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 49.158, 129.009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 118, 37) }
```

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

```
.background{ background-color: rgb(71, 118,  
37) }
```

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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