

Converting Colors

CIELCh(45, 52.197, 128.221)

Have a look what the booklet for
CIELCh(45, 52.197, 128.221)
contains.

CIELCh(45, 52.172, 128.213)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(45, 52.172, 128.213)

Conversions

Conversions Part 1

Format	Color
Hex	46771F
RGB	70, 119, 31
RGB Percent	27%, 47%, 12%
CMY	0.7262, 0.5341, 0.8792
CMYK	0.41, 0.00, 0.74, 0.53
HSL	93°, 59%, 29%
HSV	93°, 74%, 47%
XYZ	9.3311, 14.5417, 3.5981
YIQ	94.3170, -0.9560, -37.7560

Conversions

Conversions Part 2

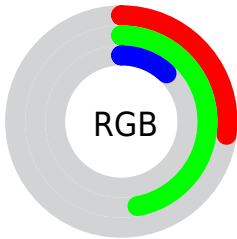
Format	Color
R_{YB}	31, 119, 80
Decimal	4618015
CIE _{Lab}	45.00, -32.27, 40.99
CIE _{LCh}	45, 52.172, 128.213
Yxy	14.5417, 0.3397, 0.5293
Android (android.graphics.Color)	4282808095 (0xFF46771F)
YUV	94.3170, -31.2153, -21.3260
Hunter-Lab	38.1336, -23.0556, 21.0993

Details

The CIELCh color **45, 52.172, 128.213** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **24, 56.990, 314.037**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 52.495, 128.392**, and **25, 45.048, 132.989** is the 20% darker color. If you saturate the color by 10%, you get **45, 57.057, 128.371**, and if you desaturate by 10%, it is **45, 46.310, 128.348**.

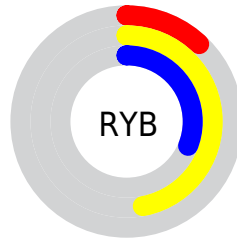
Distribution



Red (27%)

Green (47%)

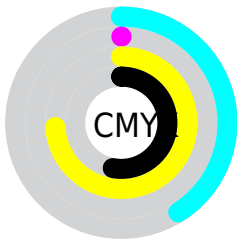
Blue (12%)



Red (12%)

Yellow (47%)

Blue (31%)

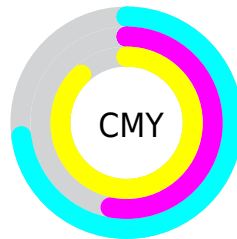


Cyan (41%)

Magenta (0%)

Yellow (74%)

Black (53%)



Cyan (73%)


Magenta (53%)


Yellow (88%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 52.172, 128.213 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, 52.172, 128.213 by changing the saturation by 10% instead.


 45, 52.172,
128.213


 45, 52.172,
128.213


 100, 52.172,
128.213


 35, 52.172,
128.213

 65, 52.172,
128.213


 25, 52.172,
128.213

 75, 52.172,
128.213

 15, 52.172,
128.213

 85, 52.172,
128.213

 5, 52.172, 128.213

 95, 52.172,
128.213

 0, 52.172, 128.213

 45, 52.172,

 45, 52.172,

128.213

■ 45, 57.057,
128.371

■ 44, 60.739,
128.903

■ 44, 62.742,
129.181

128.213

■ 45, 46.310,
128.348

■ 46, 39.759,
128.665

■ 47, 32.755,
129.082

■ 47, 25.473,
129.541

■ 48, 18.038,
130.006

■ 49, 10.538,
130.457

■ 50, 3.036, 130.899

■ 51, 4.424, 311.234

■ 51, 11.808,
311.598

Harmonies

Complementary

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



45, 52.172, 128.213



24, 56.990, 314.037

Rectangle

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



45, 52.172, 128.213



45, 52.172, 178.213



45, 52.172, 308.213



45, 52.172, 358.213

Sweetspot

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



45, 52.172, 128.214



62, 20.559, 130.075



37, 36.190, 70.993



32, 13.920, 129.977



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 52.172, 128.214



57, 72.715, 128.728



44, 56.855, 139.120



24, 4.166, 130.678



45, 64.127, 129.231



88, 109.712, 130.095

Inverse Universe

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



24, 56.990, 314.037



27, 80.472, 313.906



30, 55.438, 329.456



23, 4.213, 311.383



19, 71.368, 313.665



42, 121.610, 313.059

Previews

White Background



This preview shows how the CIELCh color 45, 52.172, 128.213 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, 52.172, 128.213 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, 52.172, 128.213

Background



This preview shows how black text looks on a background with the CIELCh color 45, 52.172, 128.213.



This preview shows how white text looks on a background with the CIELCh color 45, 52.172, 128.213.

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, 52.172, 128.213

Protanopia
45, 43.240, 95.473

Deuteranopia
45, 39.518, 82.006



Tritanopia
45, 11.416, 226.644

Trichromacy



Original Color
45, 52.172, 128.213

Protanomaly
45, 44.675, 110.085

Deuteranomaly
44, 40.140, 102.990

Tritanomaly
45, 21.435, 151.013

Monochromacy



Original Color
45, 52.172, 128.213

Achromatopsia
40, 0.006, 296.813

Achromatomaly
41, 20.711, 129.896

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 52.172, 128.213 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(70, 119, 31)` looks like.

```
.text, #text, p{  
    color:rgb(70, 119, 31)  
}
```

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(70, 119, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 119, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 52.172, 128.213 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(70, 119, 31) }
```

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

```
.border{ border-color:rgb(70, 119, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 119, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 119, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 119, 31);  
box-shadow:4px 4px 4px 4px rgb(70, 119,  
31) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 52.172, 128.213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 119, 31) }
```

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

```
.background{ background-color: rgb(70, 119,  
31) }
```

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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