

Converting Colors

CIELCh(45, 56.601, 145.463)

Have a look what the booklet for
CIELCh(45, 56.601, 145.463)
contains.

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Color

CIELCh(45, 56.667, 145.278)

Conversions

Conversions Part 1

Format	Color
Hex	007C31
RGB	0, 124, 49
RGB Percent	0%, 49%, 19%
CMY	1.0000, 0.5151, 0.8091
CMYK	1.00, 0.00, 0.61, 0.52
HSL	144°, 100%, 24%
HSV	144°, 100%, 48%
XYZ	7.7007, 14.5417, 5.2719
YIQ	78.3740, -49.8290, -49.6130

Conversions

Conversions Part 2

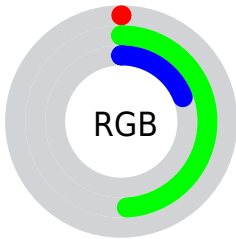
Format	Color
RYB	0, 89, 124
Decimal	31793
CIELab	45.00, -46.58, 32.28
CIELCh	45, 56.667, 145.278
Yxy	14.5417, 0.2799, 0.5285
Android (android.graphics.Color)	4278221873 (0xFF007C31)
YUV	78.3740, -14.4814, -68.7340
Hunter-Lab	38.1336, -30.6876, 18.4968

Details

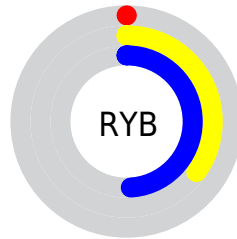
The CIELCh color **45, 56.667, 145.278** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **26, 51.604, 351.235**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 56.658, 145.330**, and **26, 48.448, 136.151** is the 20% darker color. If you saturate the color by 10%, you get **45, 56.616, 145.228**, and if you desaturate by 10%, it is **45, 52.848, 147.117**.

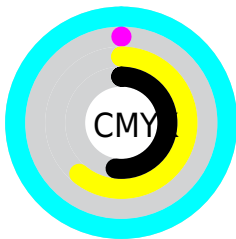
Distribution



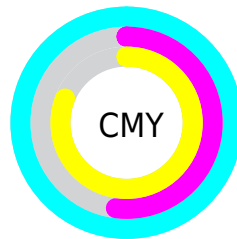
- Red (0%)
- Green (49%)
- Blue (19%)



- Red (0%)
- Yellow (35%)
- Blue (49%)



- Cyan (100%)
- Magenta (0%)
- Yellow (61%)
- Black (52%)





- Cyan (100%)
- Magenta (52%)
- Yellow (81%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 56.667, 145.278 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, 56.667, 145.278 by changing the saturation by 10% instead.


 45, 56.667,
145.278


 45, 56.667,
145.278


 100, 56.667,
145.278


 35, 56.667,
145.278

 65, 56.667,
145.278


 25, 56.667,
145.278

 75, 56.667,
145.278

 15, 56.667,
145.278

 85, 56.667,
145.278

 5, 56.667, 145.278

 95, 56.667,
145.278

 0, 56.667, 145.278

 45, 56.667,

 45, 56.667,

145.278

145.278

■ 45, 56.616,
145.228

■ 45, 52.848,
147.117

■ 45, 48.626,
149.019

■ 46, 43.799,
150.742

■ 46, 38.422,
152.279

■ 47, 32.578,
153.635

■ 48, 26.374,
154.829

■ 49, 19.916,
155.880

■ 50, 13.309,
156.810

Harmonies

Complementary

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



45, 56.667, 145.278



26, 51.604, 351.235

Rectangle

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



45, 56.667, 145.278



45, 56.667, 195.278



45, 56.667, 325.278



45, 56.667, 15.278

Sweetspot

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



45, 56.616, 145.228



62, 24.663, 155.808



47, 61.162, 123.103



32, 16.925, 155.454



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



45, 56.616, 145.228



58, 69.352, 144.658



46, 32.681, 180.666



25, 3.709, 157.725



45, 57.073, 145.203



87, 98.754, 143.955

Inverse Universe

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



26, 51.604, 351.235



35, 62.155, 352.006



25, 56.282, 33.079



24, 3.737, 338.947



26, 51.982, 351.268



55, 86.678, 353.010

Previews

White Background



This preview shows how the CIELCh color 45, 56.667, 145.278 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, 56.667, 145.278 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, 56.667, 145.278

Background



This preview shows how black text looks on a background with the CIELCh color 45, 56.667, 145.278.



This preview shows how white text looks on a background with the CIELCh color 45, 56.667, 145.278.

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, 56.667, 145.278

Protanopia
45, 35.915, 95.716

Deuteranopia
45, 30.777, 79.092



Tritanopia
45, 21.439, 211.912

Trichromacy



Original Color
45, 56.667, 145.278

Protanomaly
43, 41.045, 128.631

Deuteranomaly
43, 34.454, 125.526

Tritanomaly
45, 31.557, 171.326

Monochromacy



Original Color
45, 56.667, 145.278

Achromatopsia
33, 0.005, 296.813

Achromatomaly
36, 25.305, 153.448

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 56.667, 145.278 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(0, 124, 49)` looks like.

```
.text, #text, p{  
    color:rgb(0, 124, 49)  
}
```

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(0, 124, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 124, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 56.667, 145.278 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(0, 124, 49) }
```

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

```
.border{ border-color:rgb(0, 124, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 124, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 124, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 124, 49);  
box-shadow:4px 4px 4px 4px rgb(0, 124, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 56.667, 145.278 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 124, 49) }
```

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

```
.background{ background-color: rgb(0, 124,  
49) }
```

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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