

Converting Colors

CIELCh(45, 49.869, 139.546)

Have a look what the booklet for
CIELCh(45, 49.869, 139.546)
contains.

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Color

CIELCh(45, 49.914, 139.583)

Conversions

Conversions Part 1

Format	Color
Hex	317931
RGB	49, 121, 49
RGB Percent	19%, 47%, 19%
CMY	0.8080, 0.5256, 0.8079
CMYK	0.60, 0.00, 0.60, 0.53
HSL	120°, 42%, 33%
HSV	120°, 60%, 47%
XYZ	8.6530, 14.5417, 5.2536
YIQ	91.2640, -19.8000, -37.6560

Conversions

Conversions Part 2

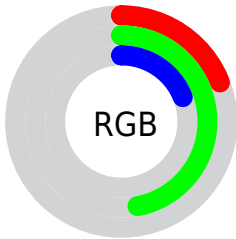
Format	Color
R_{YB}	49, 121, 121
Decimal	3242289
CIE _{Lab}	45.00, -38.00, 32.36
CIE _{LCh}	45, 49.914, 139.583
Yxy	14.5417, 0.3042, 0.5112
Android (android.graphics.Color)	4281432369 (0xFF317931)
YUV	91.2640, -20.8362, -37.0655
Hunter-Lab	38.1336, -26.2299, 18.5252

Details

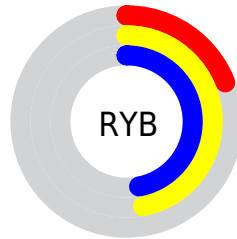
The CIELCh color **45, 49.914, 139.583** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **33, 49.474, 327.327**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 49.625, 139.659**, and **25, 47.485, 136.239** is the 20% darker color. If you saturate the color by 10%, you get **45, 56.582, 138.496**, and if you desaturate by 10%, it is **46, 42.363, 140.647**.

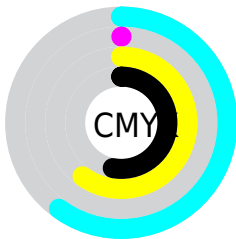
Distribution



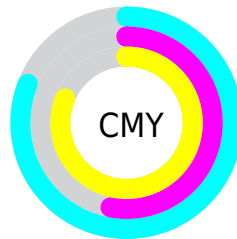
- Red (19%)
- Green (47%)
- Blue (19%)



- Red (19%)
- Yellow (47%)
- Blue (47%)



- Cyan (60%)
- Magenta (0%)
- Yellow (60%)
- Black (53%)




- Cyan (81%)
- Magenta (53%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 49.914, 139.583 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, 49.914, 139.583 by changing the saturation by 10% instead.

 45, 49.914,
139.583

 45, 49.914,
139.583


 100, 49.914,
139.583

 35, 49.914,
139.583

 65, 49.914,
139.583


 25, 49.914,
139.583

 75, 49.914,
139.583

 15, 49.914,
139.583

 85, 49.914,
139.583

 5, 49.914, 139.583

 95, 49.914,
139.583

 0, 49.914, 139.583

 45, 49.914,

 45, 49.914,

139.583

139.583

■ 45, 56.582,
138.496

■ 46, 42.363,
140.647

■ 44, 62.048,
137.484

■ 46, 34.208,
141.629

■ 44, 66.004,
136.675

■ 47, 25.684,
142.503

■ 44, 68.852,
136.049

■ 48, 16.980,
143.267

■ 44, 68.992,
136.017

■ 50, 8.243, 143.932

■ 51, 0.419, 324.042

■ 52, 8.927, 324.923

■ 54, 17.229,
325.337

■ 55, 25.294,

Harmonies

Complementary

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



45, 49.914, 139.583



33, 49.474, 327.327

Rectangle

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



45, 49.914, 139.583



45, 49.914, 189.583



45, 49.914, 319.583



45, 49.914, 9.583

Sweetspot

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



45, 49.914, 139.583



62, 19.487, 143.343



49, 39.952, 104.873



32, 13.475, 143.172



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, 49.914, 139.583



57, 71.062, 138.153



46, 34.193, 157.369



25, 4.922, 143.959



45, 70.613, 136.017



87, 118.868, 136.016

Inverse Universe

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



33, 49.474, 327.327



41, 69.829, 327.761



32, 36.134, 350.126



24, 4.930, 324.896



29, 68.128, 328.236



60, 114.683, 328.236

Previews

White Background



This preview shows how the CIELCh color 45, 49.914, 139.583 looks on a white background.

Color Contrast Check

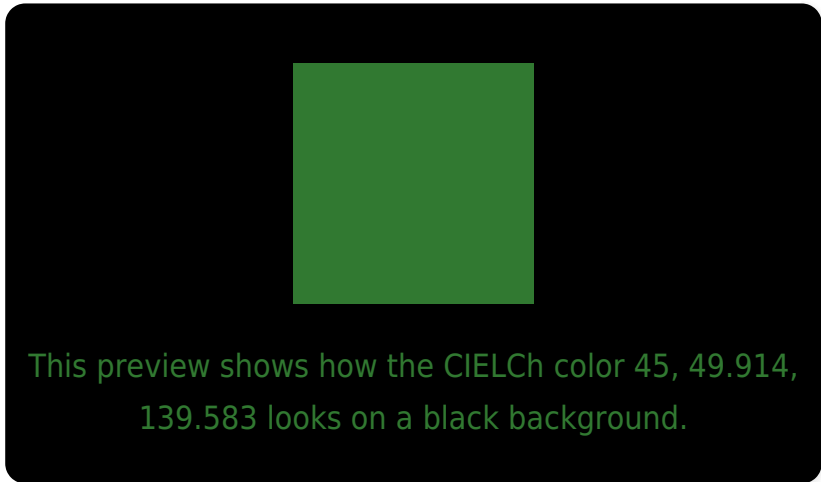
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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, 49.914, 139.583

Background



This preview shows how black text looks on a background with the CIELCh color 45, 49.914, 139.583.



This preview shows how white text looks on a background with the CIELCh color 45, 49.914, 139.583.

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, 49.914, 139.583

Protanopia

45, 35.915, 95.716

Deuteranopia

45, 30.777, 79.092



Tritanopia
45, 16.596, 219.089

Trichromacy



Original Color
45, 49.914, 139.583

Protanomaly
44, 37.764, 117.776

Deuteranomaly
44, 31.862, 111.514

Tritanomaly
45, 24.281, 167.211

Monochromacy



Original Color
45, 49.914, 139.583

Achromatopsia
39, 0.005, 296.813

Achromatomaly
41, 19.285, 142.859

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 49.914, 139.583 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, 121, 49)` looks like.

```
.text, #text, p{  
    color:rgb(49, 121, 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(49, 121, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 121, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 49.914, 139.583 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, 121, 49) }
```

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

```
.border{ border-color:rgb(49, 121, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 121, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 121, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 121, 49);  
box-shadow:4px 4px 4px 4px rgb(49, 121,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 49.914, 139.583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 121, 49) }
```

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

```
.background{ background-color: rgb(49, 121,  
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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