

Converting Colors

CIELCh(45, 31.045, 244.997)

Have a look what the booklet for
CIELCh(45, 31.045, 244.997)
contains.

CIELCh(45, 31.070, 245.160)	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, 31.070, 245.160)

Conversions

Conversions Part 1

Format	Color
Hex	007399
RGB	0, 115, 153
RGB Percent	0%, 45%, 60%
CMY	1.0000, 0.5493, 0.4003
CMYK	1.00, 0.25, 0.00, 0.40
HSL	195°, 100%, 30%
HSV	195°, 100%, 60%
XYZ	11.8636, 14.5417, 32.2868
YIQ	84.9470, -80.7380, -12.5620

Conversions

Conversions Part 2

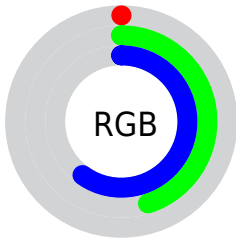
Format	Color
RYB	0, 66, 153
Decimal	29593
CIELab	45.00, -13.05, -28.20
CIELCh	45, 31.070, 245.160
Yxy	14.5417, 0.2021, 0.2478
Android (android.graphics.Color)	4278219673 (0xFF007399)
YUV	84.9470, 33.5501, -74.4985
Hunter-Lab	38.1336, -11.2012, -23.5059

Details

The CIELCh color **45, 31.070, 245.160** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **34, 65.869, 45.576**, and the grayscale version is **36, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 31.240, 245.445**, and **27, 26.032, 260.556** is the 20% darker color. If you saturate the color by 10%, you get **45, 31.062, 245.176**, and if you desaturate by 10%, it is **46, 29.802, 241.050**.

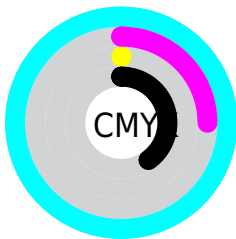
Distribution



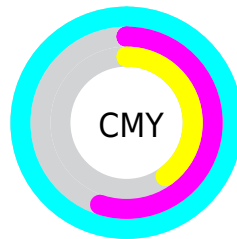
- Red (0%)
- Green (45%)
- Blue (60%)



- Red (0%)
- Yellow (26%)
- Blue (60%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (40%)





- Cyan (100%)
- Magenta (55%)
- Yellow (40%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 31.070, 245.160 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, 31.070, 245.160 by changing the saturation by 10% instead.


 45, 31.070,
245.160


 45, 31.070,
245.160


 100, 31.070,
245.160


 35, 31.070,
245.160

 65, 31.070,
245.160


 25, 31.070,
245.160

 75, 31.070,
245.160

 15, 31.070,
245.160

 85, 31.070,
245.160

 5, 31.070, 245.160

 95, 31.070,
245.160

 0, 31.070, 245.160

 45, 31.070,

 45, 31.070,

245.160

245.160

■ 45, 31.062,
245.176

■ 46, 29.802,
241.050

■ 48, 28.291,
237.380

■ 49, 26.324,
234.360

■ 51, 23.852,
231.930

■ 53, 20.872,
230.005

■ 55, 17.416,
228.502

■ 57, 13.539,
227.342

■ 59, 9.302, 226.461

Harmonies

Complementary

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



45, 31.070, 245.160



34, 65.869, 45.576

Rectangle

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



45, 31.070, 245.160



45, 31.070, 295.160



45, 31.070, 65.160



45, 31.070, 115.160

Sweetspot

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



45, 31.062, 245.176



72, 16.740, 227.402



55, 75.057, 139.596



37, 11.241, 227.819



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



45, 31.062, 245.176



58, 37.932, 246.184



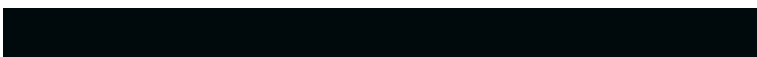
23, 72.602, 299.431



31, 2.702, 225.788



41, 29.104, 244.790



2, 2.971, 226.774

Inverse Universe

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



34, 65.402, 341.015



45, 79.181, 341.339



50, 57.020, 82.241



30, 4.994, 332.833



31, 61.478, 340.892



1, 5.314, 332.755

Previews

White Background



This preview shows how the CIE LCh color 45, 31.070, 245.160 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, 31.070, 245.160 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

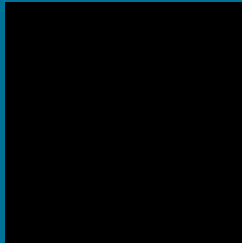
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 31.070, 245.160

Background



This preview shows how black text looks on a background with the CIELCh color 45, 31.070, 245.160.

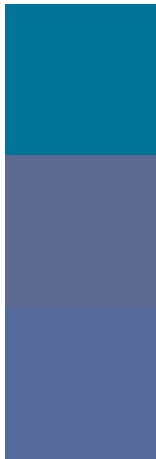


This preview shows how white text looks on a background with the CIELCh color 45, 31.070, 245.160.

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, 31.070, 245.160

Protanopia

45, 24.032, 284.511

Deuteranopia

45, 30.167, 282.762



Tritanopia
45, 27.392, 208.099

Trichromacy



Original Color
45, 31.070, 245.160

Protanomaly
44, 26.649, 260.538

Deuteranomaly
44, 29.946, 263.607

Tritanomaly
45, 27.415, 221.714

Monochromacy



Original Color
45, 31.070, 245.160

Achromatopsia
36, 0.005, 296.813

Achromatomaly
38, 16.274, 230.120

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 31.070, 245.160 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, 115, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 115, 153)  
}
```

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, 115, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 115, 153) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 31.070, 245.160 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, 115, 153) }
```

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

```
.border{ border-color:rgb(0, 115, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 115, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 115, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 115, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 115,  
153) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 31.070, 245.160 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 115, 153) }
```

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

```
.background{ background-color: rgb(0, 115,  
153) }
```

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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