

Converting Colors

CIELCh(45, 80.486, 291.656)

Have a look what the booklet for
CIELCh(45, 80.486, 291.656)
contains.

CIELCh(45, 80.420, 291.700)	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, 80.420, 291.700)

Conversions

Conversions Part 1

Format	Color
Hex	0062E9
RGB	0, 98, 233
RGB Percent	0%, 38%, 91%
CMY	1.0000, 0.6174, 0.0845
CMYK	1.00, 0.58, 0.00, 0.08
HSL	215°, 100%, 46%
HSV	215°, 100%, 92%
XYZ	19.0610, 14.5417, 79.2346
YIQ	84.0880, -101.7430, 21.2090

Conversions

Conversions Part 2

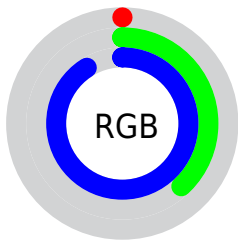
Format	Color
RYB	0, 69, 233
Decimal	25321
CIELab	45.00, 29.74, -74.72
CIELCh	45, 80.420, 291.700
Yxy	14.5417, 0.1689, 0.1289
Android (android.graphics.Color)	4278215401 (0xFF0062E9)
YUV	84.0880, 73.4136, -73.7452
Hunter-Lab	38.1336, 22.4890, -96.5002

Details

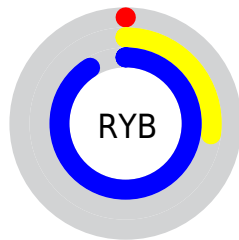
The CIELCh color **45, 80.420, 291.700** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed azure. A complement of this color would be **66, 77.811, 67.185**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 59.999, 286.719**, and **29, 77.534, 298.175** is the 20% darker color. If you saturate the color by 10%, you get **45, 80.406, 291.763**, and if you desaturate by 10%, it is **49, 71.792, 287.699**.

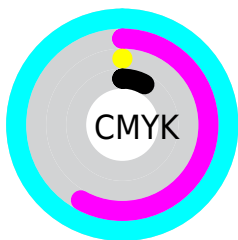
Distribution



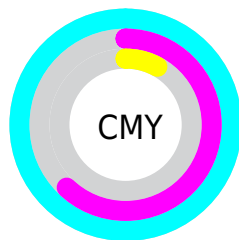
- Red (0%)
- Green (38%)
- Blue (91%)



- Red (0%)
- Yellow (27%)
- Blue (91%)



- Cyan (100%)
- Magenta (58%)
- Yellow (0%)
- Black (8%)





- Cyan (100%)
- Magenta (62%)
- Yellow (8%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 80.420, 291.700 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, 80.420, 291.700 by changing the saturation by 10% instead.


 45, 80.420,
291.700


 45, 80.420,
291.700


 100, 80.420,
291.700


 35, 80.420,
291.700

 65, 80.420,
291.700


 25, 80.420,
291.700

 75, 80.420,
291.700

 15, 80.420,
291.700

 85, 80.420,
291.700

 5, 80.420, 291.700

 95, 80.420,
291.700

 0, 80.420, 291.700

 45, 80.420,

 45, 80.420,

291.700

■ 45, 80.406,
291.763

291.700

■ 49, 71.792,
287.699

■ 53, 63.386,
283.616

■ 58, 55.194,
279.792

■ 62, 47.166,
276.354

■ 67, 39.233,
273.349

■ 72, 31.348,
270.769

■ 77, 23.484,
268.575

■ 82, 15.635,
266.716

Harmonies

Complementary

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



45, 80.420, 291.700



66, 77.811, 67.185

Rectangle

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



45, 80.420, 291.700



45, 80.420, 341.700



45, 80.420, 111.700



45, 80.420, 161.700

Sweetspot

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



45, 80.406, 291.763



83, 25.227, 268.604



82, 78.083, 152.381



42, 17.220, 269.492



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 80.406, 291.763



49, 86.402, 291.968



29, 124.854, 306.443



46, 4.452, 265.078



35, 65.322, 291.062



8, 23.727, 283.668

Inverse Universe

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



50, 79.214, 10.779



54, 84.720, 11.055



89, 90.961, 107.014



46, 5.653, 349.130



38, 65.403, 9.852



8, 28.033, 1.554

Previews

White Background



This preview shows how the CIE LCh color 45, 80.420, 291.700 looks on a white background.

Color Contrast Check

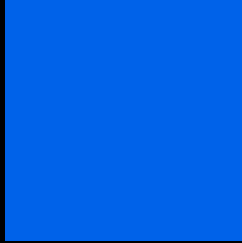
Large Text (above 18pt) WCAG AA ✓ Pass

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, 80.420, 291.700 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

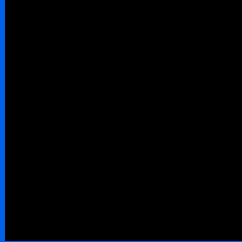
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 80.420, 291.700

Background



This preview shows how black text looks on a background with the CIELCh color 45, 80.420, 291.700.



This preview shows how white text looks on a background with the CIELCh color 45, 80.420, 291.700.

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, 79.875, 291.557

Protanopia

45, 68.590, 287.367

Deuteranopia

45, 47.838, 274.260



Tritanopia
45, 27.517, 205.432

Trichromacy



Original Color
45, 79.875, 291.557

Protanomaly
45, 73.135, 289.277

Deuteranomaly
45, 59.110, 282.643

Tritanomaly
44, 36.395, 259.809

Monochromacy



Original Color
45, 79.875, 291.557

Achromatopsia
36, 0.005, 296.813

Achromatomaly
37, 31.285, 275.604

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 80.420, 291.700 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, 98, 233)` looks like.

```
.text, #text, p{  
    color:rgb(0, 98, 233)  
}
```

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, 98, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 98, 233) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 80.420, 291.700 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, 98, 233) }
```

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

```
.border{ border-color:rgb(0, 98, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 98, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 98, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 98, 233);  
box-shadow:4px 4px 4px 4px rgb(0, 98, 233)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 80.420, 291.700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 98, 233) }
```

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

```
.background{ background-color: rgb(0, 98,  
233) }
```

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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