

Converting Colors

CIELCh(45, 42.459, 270.402)

Have a look what the booklet for
CIELCh(45, 42.459, 270.402)
contains.

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Color

CIELCh(45, 42.449, 270.453)

Conversions

Conversions Part 1

Format	Color
Hex	166EB1
RGB	22, 110, 177
RGB Percent	9%, 43%, 69%
CMY	0.9155, 0.5679, 0.3050
CMYK	0.88, 0.38, 0.00, 0.31
HSL	206°, 78%, 39%
HSV	206°, 88%, 69%
XYZ	13.8745, 14.5417, 43.7831
YIQ	91.3260, -73.9550, 2.1810

Conversions

Conversions Part 2

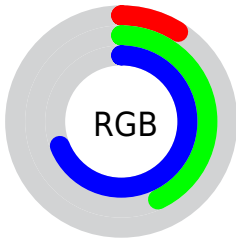
Format	Color
R_{YB}	22, 78, 177
Decimal	1470129
CIE _{Lab}	45.00, 0.34, -42.45
CIE _{LCh}	45, 42.449, 270.453
Yxy	14.5417, 0.1922, 0.2014
Android (android.graphics.Color)	4279660209 (0xFF166EB1)
YUV	91.3260, 42.2373, -60.7989
Hunter-Lab	38.1336, -1.7887, -41.3803

Details

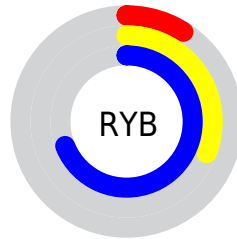
The CIELCh color **45, 42.449, 270.453** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **48, 60.156, 57.765**, and the grayscale version is **39, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 42.441, 270.720**, and **27, 40.300, 281.556** is the 20% darker color. If you saturate the color by 10%, you get **42, 46.652, 275.217**, and if you desaturate by 10%, it is **48, 38.290, 266.002**.

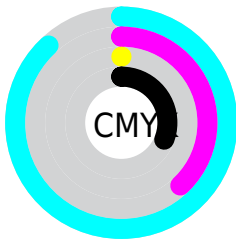
Distribution



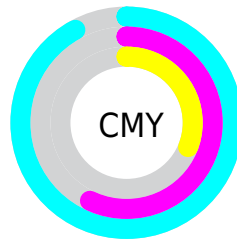
- Red (9%)
- Green (43%)
- Blue (69%)



- Red (9%)
- Yellow (31%)
- Blue (69%)



- Cyan (88%)
- Magenta (38%)
- Yellow (0%)
- Black (31%)





- Cyan (92%)
- Magenta (57%)
- Yellow (31%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 42.449, 270.453 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, 42.449, 270.453 by changing the saturation by 10% instead.


 45, 42.449,
270.453


 45, 42.449,
270.453


 100, 42.449,
270.453

 35, 42.449,
270.453

 65, 42.449,
270.453


 25, 42.449,
270.453

 75, 42.449,
270.453

 15, 42.449,
270.453

 85, 42.449,
270.453

 5, 42.449, 270.453

 95, 42.449,
270.453

 0, 42.449, 270.453

 45, 42.449,

 45, 42.449,

270.453

■ 42, 46.652,
275.217

■ 42, 47.590,
276.193

270.453

■ 48, 38.290,
266.002

■ 50, 34.044,
262.059

■ 53, 29.624,
258.671

■ 57, 24.984,
255.816

■ 60, 20.114,
253.438

■ 63, 15.030,
251.469

■ 66, 9.761, 249.846

■ 70, 4.341, 248.535

Harmonies

Complementary

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



45, 42.449, 270.453



48, 60.156, 57.765

Rectangle

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



45, 42.449, 270.453



45, 42.449, 320.453



45, 42.449, 90.453



45, 42.449, 140.453

Sweetspot

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



45, 42.448, 270.454



80, 17.350, 251.221



64, 67.665, 147.955



41, 11.692, 251.826



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



45, 42.448, 270.454



54, 58.610, 277.096



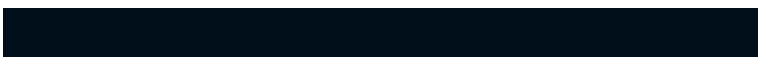
25, 88.934, 303.141



36, 3.147, 248.707



36, 42.277, 275.571



4, 8.291, 259.824

Inverse Universe

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



40, 64.284, 351.822



50, 79.540, 356.114



67, 66.792, 98.075



35, 4.988, 340.763



33, 59.090, 355.022



2, 11.069, 345.975

Previews

White Background



This preview shows how the CIE LCh color 45, 42.449, 270.453 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, 42.449, 270.453 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

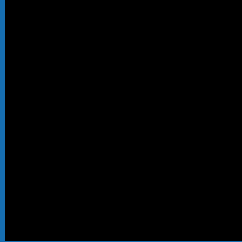
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 42.449, 270.453

Background



This preview shows how black text looks on a background with the CIELCh color 45, 42.449, 270.453.

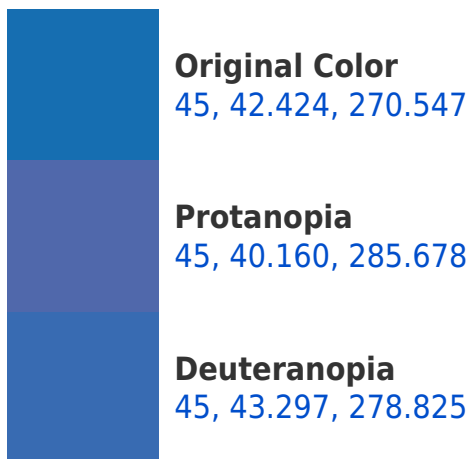


This preview shows how white text looks on a background with the CIELCh color 45, 42.449, 270.453.

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





Tritanopia
45, 27.448, 206.762

Trichromacy



Original Color
45, 42.424, 270.547

Protanomaly
45, 40.996, 278.383

Deuteranomaly
45, 43.270, 275.465

Tritanomaly
45, 28.568, 236.769

Monochromacy



Original Color
45, 42.424, 270.547

Achromatopsia
39, 0.005, 296.813

Achromatomaly
40, 17.742, 254.704

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 42.449, 270.453 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(22, 110, 177)` looks like.

```
.text, #text, p{  
    color:rgb(22, 110, 177)  
}
```

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(22, 110, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 110, 177) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 42.449, 270.453 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(22, 110, 177) }
```

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

```
.border{ border-color:rgb(22, 110, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 110, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 110, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 110, 177);  
box-shadow:4px 4px 4px 4px rgb(22, 110,  
177) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 42.449, 270.453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 110, 177) }
```

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

```
.background{ background-color: rgb(22, 110,  
177) }
```

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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