

Converting Colors

CIELCh(42, 86.297, 296.371)

Have a look what the booklet for
CIELCh(42, 86.297, 296.371)
contains.

CIELCh(42, 86.282, 296.427)	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(42, 86.282, 296.427)

Conversions

Conversions Part 1

Format	Color
Hex	2854E5
RGB	40, 84, 229
RGB Percent	16%, 33%, 90%
CMY	0.8444, 0.6696, 0.1007
CMYK	0.83, 0.63, 0.00, 0.10
HSL	226°, 79%, 53%
HSV	226°, 83%, 90%
XYZ	18.2396, 12.5000, 75.8131
YIQ	87.3740, -72.7690, 35.7670

Conversions

Conversions Part 2

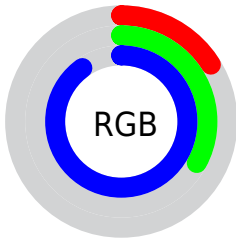
Format	Color
R _Y B	40, 76, 229
Decimal	2643173
CIE Lab	42.00, 38.40, -77.27
CIE LCh	42, 86.282, 296.427
Yxy	12.5000, 0.1712, 0.1173
Android (android.graphics.Color)	4280833253 (0xFF2854E5)
YUV	87.3740, 69.8216, -41.5470
Hunter-Lab	35.3553, 30.2154, -102.3879

Details

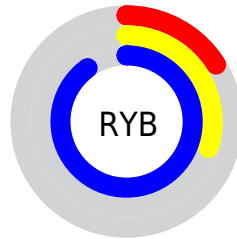
The CIELCh color **42, 86.282, 296.427** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark washed blue. A complement of this color would be **77, 72.348, 87.459**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **60, 68.632, 294.362**, and **25, 83.514, 301.139** is the 20% darker color. If you saturate the color by 10%, you get **37, 97.489, 299.549**, and if you desaturate by 10%, it is **47, 74.799, 293.258**.

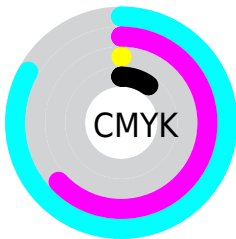
Distribution



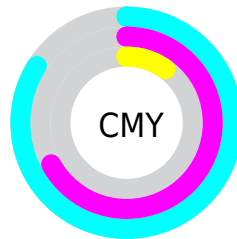
- Red (16%)
- Green (33%)
- Blue (90%)



- Red (16%)
- Yellow (30%)
- Blue (90%)



- Cyan (83%)
- Magenta (63%)
- Yellow (0%)
- Black (10%)



- Cyan (84%)
- Magenta (67%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 86.282, 296.427 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 42, 86.282, 296.427 by changing the saturation by 10% instead.

 42, 86.282,
296.427


 42, 86.282,
296.427


 100, 86.282,
296.427


 32, 86.282,
296.427

 62, 86.282,
296.427


 22, 86.282,
296.427

 72, 86.282,
296.427

 12, 86.282,
296.427

 82, 86.282,
296.427

 2, 86.282, 296.427

 92, 86.282,
296.427

 0, 86.282, 296.427

 42, 86.282,

 42, 86.282,

296.427

■ 37, 97.489,
299.549

■ 35, 105.062,
301.594

296.427

■ 47, 74.799,
293.258

■ 53, 63.486,
290.252

■ 59, 52.511,
287.536

■ 65, 41.897,
285.152

■ 71, 31.622,
283.096

■ 77, 21.650,
281.336

■ 83, 11.954,
279.837

■ 89, 2.514, 278.608

Harmonies

Complementary

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



42, 86.282, 296.427



77, 72.348, 87.459

Rectangle

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



42, 86.282, 296.427



42, 86.282, 346.427



42, 86.282, 116.427



42, 86.282, 166.427

Sweetspot

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



42, 86.283, 296.428



83, 26.078, 281.742



82, 56.389, 169.184



42, 17.878, 282.355



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



42, 86.283, 296.428



39, 113.378, 301.503



36, 108.749, 307.350



45, 5.330, 279.403



26, 85.799, 301.124



5, 28.216, 291.464

Inverse Universe

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



51, 74.774, 18.484



54, 91.176, 27.387



85, 86.820, 116.320



45, 5.045, 1.453



37, 69.461, 26.552



7, 26.645, 11.841

Previews

White Background



This preview shows how the CIE LCh color 42, 86.282, 296.427 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 42, 86.282, 296.427 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

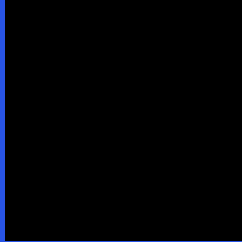
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 86.282, 296.427

Background



This preview shows how black text looks on a background with the CIELCh color 42, 86.282, 296.427.



This preview shows how white text looks on a background with the CIELCh color 42, 86.282, 296.427.

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

42, 86.268, 296.484

Protanopia

42, 63.556, 286.684

Deuteranopia

42, 44.817, 273.791



Tritanopia
42, 25.971, 206.113

Trichromacy



Original Color
42, 86.268, 296.484

Protanomaly
42, 72.138, 290.878

Deuteranomaly
41, 59.562, 285.509

Tritanomaly
41, 37.504, 267.268

Monochromacy



Original Color
42, 86.268, 296.484

Achromatopsia
37, 0.005, 296.813

Achromatomaly
38, 32.787, 286.525

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 86.282, 296.427 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(40, 84, 229)` looks like.

```
.text, #text, p{  
  color:rgb(40, 84, 229)  
}
```

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(40, 84, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 84, 229) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 86.282, 296.427 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(40, 84, 229) }
```

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

```
.border{ border-color:rgb(40, 84, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 84, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 84, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 84, 229);  
box-shadow:4px 4px 4px 4px rgb(40, 84,  
229) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 86.282, 296.427 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 84, 229) }
```

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

```
.background{ background-color: rgb(40, 84,  
229) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor