

Converting Colors

CIELCh(42, 87.275, 297.460)

Have a look what the booklet for
CIELCh(42, 87.275, 297.460)
contains.

CIELCh(42, 87.293, 297.391)	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, 87.293, 297.391)

Conversions

Conversions Part 1

Format	Color
Hex	3153E6
RGB	49, 83, 230
RGB Percent	19%, 33%, 90%
CMY	0.8094, 0.6753, 0.0990
CMYK	0.79, 0.64, 0.00, 0.10
HSL	229°, 78%, 55%
HSV	229°, 79%, 90%
XYZ	18.5755, 12.5000, 76.1223
YIQ	89.5920, -67.4510, 38.5090

Conversions

Conversions Part 2

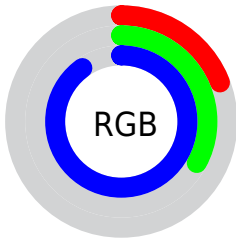
Format	Color
R_{YB}	49, 78, 230
Decimal	3232742
CIE _{Lab}	42.00, 40.16, -77.51
CIE _{LCh}	42, 87.293, 297.391
Yxy	12.5000, 0.1733, 0.1166
Android (android.graphics.Color)	4281422822 (0xFF3153E6)
YUV	89.5920, 69.2211, -35.5992
Hunter-Lab	35.3553, 31.9112, -102.9064

Details

The CIELCh color **42, 87.293, 297.391** 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 **80, 72.160, 91.547**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **60, 69.177, 295.629**, and **25, 84.635, 301.420** is the 20% darker color. If you saturate the color by 10%, you get **37, 99.128, 300.311**, and if you desaturate by 10%, it is **48, 75.106, 294.439**.

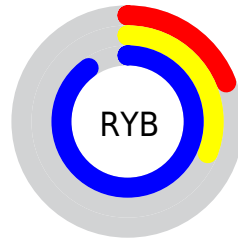
Distribution



 Red (19%)

 Green (33%)

 Blue (90%)




 Red (19%)

 Yellow (31%)

 Blue (90%)

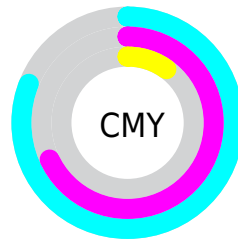


 Cyan (79%)

 Magenta (64%)

 Yellow (0%)

 Black (10%)



 Cyan (81%)


 Magenta (68%)


 Yellow (10%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 87.293, 297.391 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, 87.293, 297.391 by changing the saturation by 10% instead.


 42, 87.293,
297.391


 42, 87.293,
297.391


 100, 87.293,
297.391


 32, 87.293,
297.391

 62, 87.293,
297.391


 22, 87.293,
297.391

 72, 87.293,
297.391

 12, 87.293,
297.391

 82, 87.293,
297.391

 2, 87.293, 297.391

 92, 87.293,
297.391

 0, 87.293, 297.391

 42, 87.293,

 42, 87.293,

297.391

297.391

■ 37, 99.128,
300.311

■ 48, 75.106,
294.439

■ 33, 109.639,
302.889

■ 54, 63.093,
291.659

■ 33, 110.725,
303.139

■ 60, 51.452,
289.160

■ 66, 40.222,
286.978

■ 73, 29.382,
285.101

■ 79, 18.899,
283.498

■ 86, 8.741, 282.136

■ 92, 1.116, 100.792

 98, 10.670,
100.688

Harmonies

Complementary

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



42, 87.293, 297.391



80, 72.160, 91.547

Rectangle

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



42, 87.293, 297.391



42, 87.293, 347.391



42, 87.293, 117.391



42, 87.293, 167.391

Sweetspot

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



42, 87.294, 297.392



83, 26.409, 284.315



82, 52.192, 174.278



42, 18.245, 284.908



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, 87.294, 297.392



39, 115.109, 302.107



39, 104.181, 308.029



45, 5.614, 282.213



25, 90.436, 302.735



4, 29.310, 292.710

Inverse Universe

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



51, 73.390, 20.482



54, 91.477, 28.817



85, 85.595, 118.514



45, 4.959, 4.927



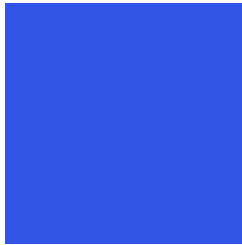
37, 71.541, 30.138



7, 26.678, 13.888

Previews

White Background



This preview shows how the CIE LCh color 42, 87.293, 297.391 looks on a white background.

Color Contrast Check

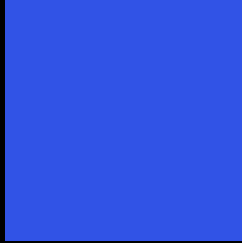
Large Text (above 18pt) WCAG AA ✓ Pass

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, 87.293, 297.391 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

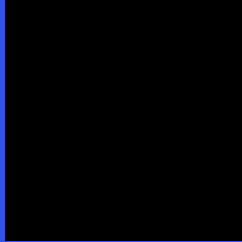
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 87.293, 297.391

Background



This preview shows how black text looks on a background with the CIELCh color 42, 87.293, 297.391.



This preview shows how white text looks on a background with the CIELCh color 42, 87.293, 297.391.

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, 87.293, 297.391

Protanopia

42, 63.556, 286.684

Deuteranopia

42, 44.817, 273.791



Tritanopia
42, 25.971, 206.113

Trichromacy



Original Color
42, 87.293, 297.391

Protanomaly
42, 72.110, 291.023

Deuteranomaly
41, 60.146, 286.194

Tritanomaly
40, 37.870, 268.641

Monochromacy



Original Color
42, 87.293, 297.391

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 32.636, 287.946

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 87.293, 297.391 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, 83, 230)` looks like.

```
.text, #text, p{  
    color:rgb(49, 83, 230)  
}
```

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, 83, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 83, 230) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 87.293, 297.391 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, 83, 230) }
```

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

```
.border{ border-color:rgb(49, 83, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 83, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 83, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 83, 230);  
box-shadow:4px 4px 4px 4px rgb(49, 83,  
230) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 87.293, 297.391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 83, 230) }
```

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

```
.background{ background-color: rgb(49, 83,  
230) }
```

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