

# Converting Colors

CIELCh(44, 89.710, 295.887)

Have a look what the booklet for  
CIELCh(44, 89.710, 295.887)  
contains.

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# Color

**CIELCh(44, 89.698, 295.928)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2059F1
RGB	32, 89, 241
RGB Percent	13%, 35%, 95%
CMY	0.8729, 0.6505, 0.0543
CMYK	0.87, 0.63, 0.00, 0.05
HSL	224°, 88%, 54%
HSV	224°, 87%, 95%
XYZ	20.0900, 13.8382, 84.9486
YIQ	89.2850, -82.7640, 35.1880

# Conversions

## Conversions Part 2

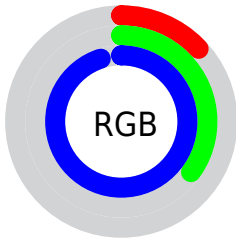
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	32, 77, 241
Decimal	2120177
CIE Lab	44.00, 39.22, -80.67
CIE LCh	44, 89.698, 295.928
Yxy	13.8382, 0.1690, 0.1164
Android (android.graphics.Color)	4280310257 (0xFF2059F1)
YUV	89.2850, 74.7955, -50.2389
Hunter-Lab	37.1997, 31.3005, -109.3537

# Details

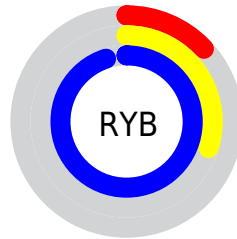
The CIELCh color **44, 89.698, 295.928** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark washed blue. A complement of this color would be **78, 75.985, 83.748**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 65.034, 292.184**, and **28, 86.898, 300.816** is the 20% darker color. If you saturate the color by 10%, you get **40, 100.795, 299.199**, and if you desaturate by 10%, it is **49, 78.322, 292.564**.

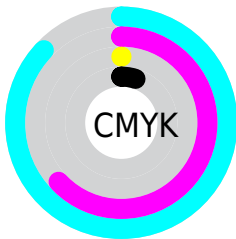
# Distribution



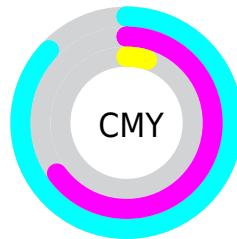
- Red (13%)
- Green (35%)
- Blue (95%)



- Red (13%)
- Yellow (30%)
- Blue (95%)



- Cyan (87%)
- Magenta (63%)
- Yellow (0%)
- Black (5%)



- Cyan (87%)
- Magenta (65%)
- Yellow (5%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 44, 89.698, 295.928 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 44, 89.698, 295.928 by changing the saturation by 10% instead.




 44, 89.698,  
295.928


 44, 89.698,  
295.928


 100, 89.698,  
295.928

 34, 89.698,  
295.928

 64, 89.698,  
295.928

 24, 89.698,  
295.928

 74, 89.698,  
295.928

 14, 89.698,  
295.928

 84, 89.698,  
295.928

 4, 89.698, 295.928

 94, 89.698,  
295.928

 0, 89.698, 295.928

 44, 89.698,

 44, 89.698,

295.928

■ 40, 100.795,  
299.199

■ 38, 104.440,  
300.214

295.928

■ 49, 78.322,  
292.564

■ 55, 67.099,  
289.337

■ 60, 56.193,  
286.395

■ 66, 45.626,  
283.798

■ 73, 35.367,  
281.551

■ 79, 25.383,  
279.626

■ 85, 15.644,  
277.985

■ 91, 6.131, 276.598



# Harmonies

# Complementary

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



44, 89.698, 295.928



78, 75.985, 83.748

# Rectangle

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



44, 89.698, 295.928



44, 89.698, 345.928



44, 89.698, 115.928



44, 89.698, 165.928

# Sweetspot

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



44, 89.699, 295.929



83, 25.987, 279.541



85, 62.377, 165.650



42, 17.689, 280.171



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



44, 89.699, 295.929



40, 109.270, 300.308



36, 117.533, 307.078



47, 5.302, 276.975



29, 83.701, 299.670



6, 30.404, 292.671



# Inverse Universe

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



52, 79.245, 17.387



54, 89.694, 24.864



89, 91.663, 114.850



47, 5.312, 358.804



38, 69.505, 23.596



8, 28.825, 11.948



# Previews

## White Background



This preview shows how the CIE LCh color 44, 89.698, 295.928 looks on a white background.

## Color Contrast Check

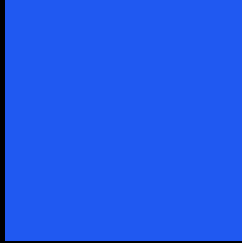
Large Text (above 18pt) WCAG AA ✓ Pass

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 44, 89.698, 295.928 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

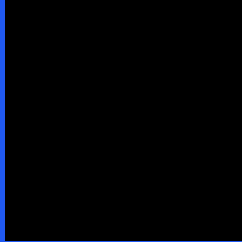
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

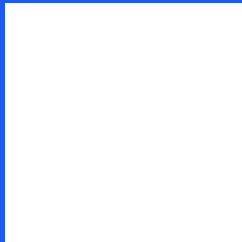
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 44, 89.698, 295.928

## Background



This preview shows how black text looks on a background with the CIELCh color 44, 89.698, 295.928.



This preview shows how white text looks on a background with the CIELCh color 44, 89.698, 295.928.

# 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

44, 89.698, 295.928

### Protanopia

44, 66.600, 287.150

### Deuteranopia

44, 46.325, 273.752





**Tritanopia**  
44, 27.084, 204.294

# Trichromacy



**Original Color**  
44, 89.698, 295.928

**Protanomaly**  
43, 75.136, 291.015

**Deuteranomaly**  
43, 61.491, 285.255

**Tritanomaly**  
43, 38.672, 266.371

# Monochromacy



**Original Color**  
44, 89.698, 295.928

**Achromatopsia**  
38, 0.005, 296.813

**Achromatomaly**  
39, 33.976, 284.580

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 44, 89.698, 295.928 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(32, 89, 241)` looks like.

```
.text, #text, p{  
    color:rgb(32, 89, 241)  
}
```

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(32, 89, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 89, 241) }
```

## Border

The CSS property to change the border of an element to CIELCh 44, 89.698, 295.928 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(32, 89, 241) }
```

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

```
.border{ border-color:rgb(32, 89, 241) }
```

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

Here you see how a box with a 4 pixel rgb(32, 89, 241) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 89, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 89, 241);  
box-shadow:4px 4px 4px 4px rgb(32, 89,  
241) }
```

# Background

The CSS property to change the background color of an element to CIELCh 44, 89.698, 295.928 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 89, 241) }
```

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

```
.background{ background-color: rgb(32, 89,  
241) }
```

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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