

# Converting Colors

CIELCh(89, 47.381, 183.770)

Have a look what the booklet for  
CIELCh(89, 47.381, 183.770)  
contains.

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# Color

**CIELCh(89, 47.536, 183.643)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4EF8E4
RGB	78, 248, 228
RGB Percent	31%, 97%, 89%
CMY	0.6955, 0.0285, 0.1069
CMYK	0.69, 0.00, 0.08, 0.03
HSL	173°, 92%, 64%
HSV	173°, 69%, 97%
XYZ	50.5666, 74.1641, 84.8618
YIQ	194.8900, -94.9000, -42.2600

# Conversions

## Conversions Part 2

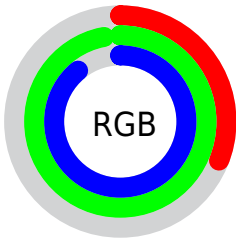
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	78, 168, 248
Decimal	5175524
CIE <sub>Lab</sub>	89.00, -47.44, -3.02
CIE <sub>LCh</sub>	89, 47.536, 183.643
Yxy	74.1641, 0.2413, 0.3538
Android (android.graphics.Color)	4283365604 (0xFF4EF8E4)
YUV	194.8900, 16.3232, -102.5125
Hunter-Lab	86.1186, -45.8970, 1.8583

# Details

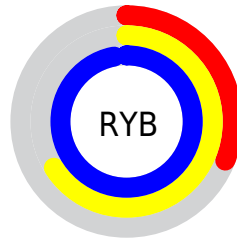
The CIELCh color **89, 47.536, 183.643** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **58, 70.610, 22.006**, and the grayscale version is **79, 0.010, 296.813**.

A 20% lighter version of the original color is **94, 32.611, 197.412**, and **70, 44.021, 182.985** is the 20% darker color. If you saturate the color by 10%, you get **89, 50.979, 182.532**, and if you desaturate by 10%, it is **90, 43.028, 184.664**.

# Distribution



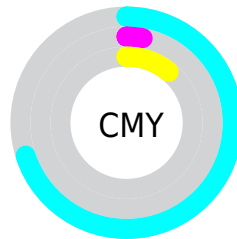
- Red (31%)
- Green (97%)
- Blue (89%)



- Red (31%)
- Yellow (66%)
- Blue (97%)



- Cyan (69%)
- Magenta (0%)
- Yellow (8%)
- Black (3%)



- Cyan (70%)
- Magenta (3%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 89, 47.536, 183.643 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 89, 47.536, 183.643 by changing the saturation by 10% instead.





 89, 47.536,  
183.643

 89, 47.536,  
183.643


 100, 47.536,  
183.643


 79, 47.536,  
183.643

 69, 47.536,  
183.643

 59, 47.536,  
183.643

 49, 47.536,  
183.643

 39, 47.536,  
183.643

 29, 47.536,  
183.643

 19, 47.536,

183.643

■ 9, 47.536, 183.643

■ 0, 47.536, 183.643

■ 89, 47.536,  
183.643

■ 89, 47.536,  
183.643

■ 89, 50.979,  
182.532

■ 90, 43.028,  
184.664

■ 88, 53.386,  
181.316

■ 91, 37.499,  
185.620

■ 88, 54.910,  
179.987

■ 92, 31.047,  
186.527


■ 88, 55.087,  
179.807

■ 93, 23.803,  
187.400

■ 94, 15.918,

188.252

 96, 7.540, 189.114

 98, 1.192, 9.309

 98, 3.077, 346.228

 98, 4.092, 328.729

# Harmonies

# Complementary

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



89, 47.536, 183.643



58, 70.610, 22.006

# Rectangle

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



89, 47.536, 183.643



89, 47.536, 233.643



89, 47.536, 3.643



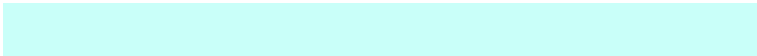
89, 47.536, 53.643

# Sweetspot

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



89, 47.536, 183.642



96, 18.236, 188.050



87, 96.314, 136.048



51, 12.254, 187.815



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



89, 47.536, 183.642



91, 53.076, 182.123



72, 41.498, 253.910



51, 4.978, 189.038



69, 44.796, 180.049



22, 19.925, 181.903



# Inverse Universe

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



58, 70.610, 22.006



56, 85.245, 27.515



69, 61.740, 54.415



49, 5.219, 10.483



39, 78.295, 34.976

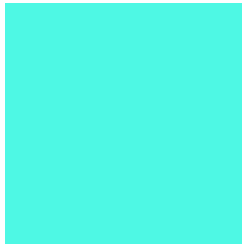


9, 31.416, 21.356



# Previews

## White Background



This preview shows how the CIE LCh color 89, 47.536, 183.643 looks on a white background.

## Color Contrast Check

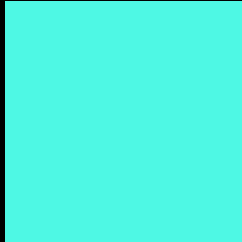
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 89, 47.536, 183.643 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

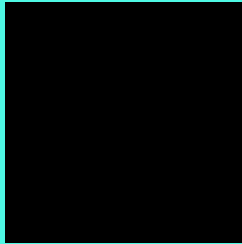
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

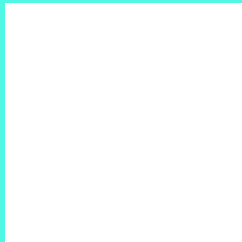
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 89, 47.536, 183.643**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 89, 47.536, 183.643.

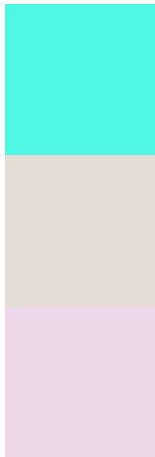


This preview shows how white text looks on a background with the CIELCh color 89, 47.536, 183.643.

# 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**  
89, 47.536, 183.643

**Protanopia**  
88, 5.315, 80.920

**Deuteranopia**  
88, 13.092, 327.509





**Tritanopia**  
89, 31.910, 212.827

# Trichromacy



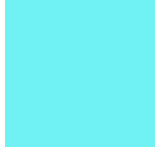
**Original Color**  
89, 47.536, 183.643



**Protanomaly**  
88, 21.037, 179.073



**Deuteranomaly**  
87, 16.143, 207.761

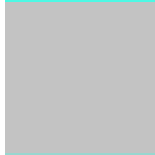


**Tritanomaly**  
89, 37.002, 199.529

# Monochromacy



**Original Color**  
89, 47.536, 183.643



**Achromatopsia**  
79, 0.010, 296.813



**Achromatomaly**  
81, 21.320, 187.795

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 89, 47.536, 183.643 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(78, 248, 228)` looks like.

```
.text, #text, p{  
    color:rgb(78, 248, 228)  
}
```

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(78, 248, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 248, 228) }
```

## Border

The CSS property to change the border of an element to CIELCh 89, 47.536, 183.643 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(78, 248, 228) }
```

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

```
.border{ border-color:rgb(78, 248, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 248, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 248, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 248, 228);  
box-shadow:4px 4px 4px 4px rgb(78, 248,  
228) }
```

# Background

The CSS property to change the background color of an element to CIELCh 89, 47.536, 183.643 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 248, 228) }
```

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

```
.background{ background-color: rgb(78, 248,  
228) }
```

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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