

Converting Colors

CIELCh(90, 48.810, 198.990)

Have a look what the booklet for
CIELCh(90, 48.810, 198.990)
contains.

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Color

CIELCh(90, 48.812, 198.924)

Conversions

Conversions Part 1

Format	Color
Hex	09FBFF
RGB	9, 251, 255
RGB Percent	4%, 98%, 100%
CMY	0.9632, 0.0155, 0.0000
CMYK	0.96, 0.02, 0.00, 0.00
HSL	181°, 100%, 52%
HSV	181°, 96%, 100%
XYZ	52.6835, 76.3034, 106.5947
YIQ	179.0980, -145.5160, -50.0600

Conversions

Conversions Part 2

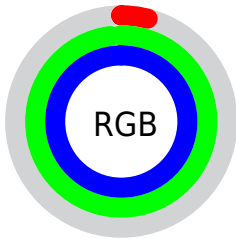
Format	Color
R_{YB}	9, 131, 255
Decimal	654335
CIE _{Lab}	90.00, -46.17, -15.83
CIE _{LCh}	90, 48.812, 198.924
Yxy	76.3034, 0.2236, 0.3239
Android (android.graphics.Color)	4278844415 (0xFF09FBFF)
YUV	179.0980, 37.4197, -149.1759
Hunter-Lab	87.3518, -45.2088, -11.2049

Details

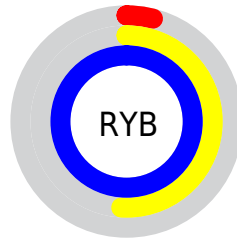
The CIELCh color **90, 48.812, 198.924** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **54, 102.539, 39.393**, and the grayscale version is **73, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 38.090, 197.085**, and **71, 40.258, 199.603** is the 20% darker color. If you saturate the color by 10%, you get **90, 48.965, 198.972**, and if you desaturate by 10%, it is **90, 48.014, 198.723**.

Distribution



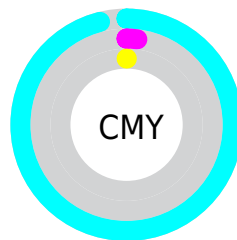
- Red (4%)
- Green (98%)
- Blue (100%)



- Red (4%)
- Yellow (51%)
- Blue (100%)



- Cyan (96%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (96%)
- Magenta (2%)
- Yellow (0%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 48.812, 198.924 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 90, 48.812, 198.924 by changing the saturation by 10% instead.

 90, 48.812,
198.924


 90, 48.812,
198.924


 100, 48.812,
198.924


 80, 48.812,
198.924

 70, 48.812,
198.924

 60, 48.812,
198.924

 50, 48.812,
198.924

 40, 48.812,
198.924

 30, 48.812,
198.924

 20, 48.812,

198.924

■ 10, 48.812,
198.924

■ 0, 48.812, 198.924

■ 90, 48.812,
198.924

■ 90, 48.812,
198.924

■ 90, 48.965,
198.972

■ 90, 48.014,
198.723

■ 91, 46.242,
198.642

■ 91, 43.383,
198.656

■ 92, 39.406,
198.764

■ 93, 34.345,
198.962

■ 94, 28.289,
199.243

■ 95, 21.360,
199.601

■ 97, 13.700,
200.033

■ 99, 5.453, 200.573

Harmonies

Complementary

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



90, 48.812, 198.924



54, 102.539, 39.393

Rectangle

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



90, 48.812, 198.924



90, 48.812, 248.924



90, 48.812, 18.924



90, 48.812, 68.924

Sweetspot

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



90, 48.817, 198.895



95, 23.293, 199.498



88, 119.030, 136.113



50, 15.707, 199.345



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



90, 48.817, 198.895



90, 48.965, 198.972



56, 70.901, 283.380



52, 4.865, 200.379



69, 39.454, 198.927



23, 18.199, 198.615

Inverse Universe

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



60, 113.533, 328.855



60, 114.092, 328.895



68, 83.841, 60.856



50, 8.959, 325.380



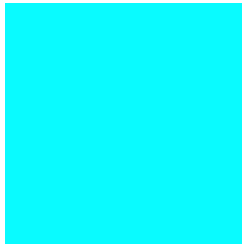
45, 91.915, 328.883



12, 42.350, 328.804

Previews

White Background



This preview shows how the CIE LCh color 90, 48.812, 198.924 looks on a white background.

Color Contrast Check

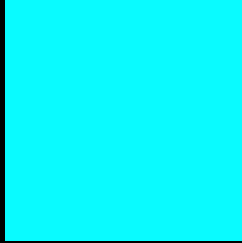
Large Text (above 18pt) WCAG AA × Fail

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 90, 48.812, 198.924 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

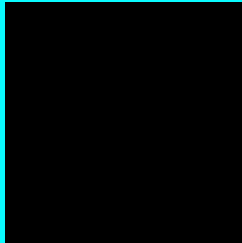
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

CIELCh 90, 48.812, 198.924

Background



This preview shows how black text looks on a background with the CIELCh color 90, 48.812, 198.924.

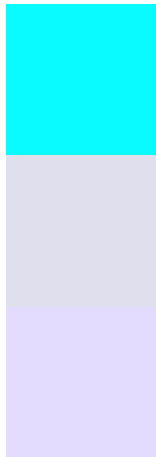


This preview shows how white text looks on a background with the CIELCh color 90, 48.812, 198.924.

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


90, 48.812, 198.924

Protanopia

89, 7.311, 293.517

Deuteranopia

89, 18.449, 299.015



Tritanopia
90, 30.528, 211.530

Trichromacy



Original Color
90, 48.812, 198.924



Protanomaly
87, 27.105, 210.099



Deuteranomaly
87, 27.414, 225.466

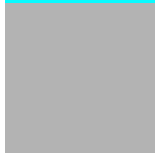


Tritanomaly
89, 40.399, 204.444

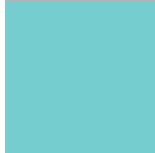
Monochromacy



Original Color
90, 48.812, 198.924



Achromatopsia
73, 0.009, 296.813



Achromatomaly
77, 27.520, 199.693

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 90, 48.812, 198.924 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(9, 251, 255)` looks like.

```
.text, #text, p{  
    color:rgb(9, 251, 255)  
}
```

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(9, 251, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 251, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 90, 48.812, 198.924 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(9, 251, 255) }
```

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

```
.border{ border-color:rgb(9, 251, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 251, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 251, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(9, 251, 255);  
box-shadow:4px 4px 4px 4px rgb(9, 251,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 90, 48.812, 198.924 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 251, 255) }
```

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

```
.background{ background-color: rgb(9, 251,  
255) }
```

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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