

Converting Colors

CIELCh(49, 116.957, 316.885)

Have a look what the booklet for
CIELCh(49, 116.957, 316.885)
contains.

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Color

CIELCh(49, 116.780, 316.863)

Conversions

Conversions Part 1

Format	Color
Hex	B31AFF
RGB	179, 26, 255
RGB Percent	70%, 10%, 100%
CMY	0.2973, 0.8966, 0.0000
CMYK	0.30, 0.90, 0.00, 0.00
HSL	280°, 100%, 55%
HSV	280°, 90%, 100%
XYZ	37.0933, 17.5941, 96.2074
YIQ	97.8530, 17.6790, 103.6550

Conversions

Conversions Part 2

Format	Color
R_{YB}	179, 26, 255
Decimal	11737855
CIE _{Lab}	49.00, 85.22, -79.85
CIE _{LCh}	49, 116.780, 316.863
Yxy	17.5941, 0.2458, 0.1166
Android (android.graphics.Color)	4289927935 (0xFFB31AFF)
YUV	97.8530, 77.4735, 71.1659
Hunter-Lab	41.9453, 84.4480, -106.6283

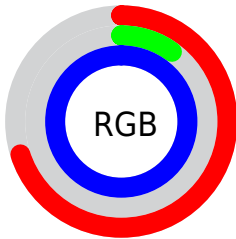
Details

The CIELCh color **49, 116.780, 316.863** is a light color, and the websafe version is hex **CC00FF**.

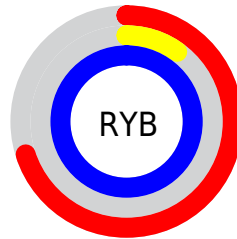
The color can be described as light washed purple. A complement of this color would be **89, 110.662, 131.941**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 90.820, 324.496**, and **34, 100.639, 314.333** is the 20% darker color. If you saturate the color by 10%, you get **47, 120.512, 316.213**, and if you desaturate by 10%, it is **52, 109.718, 317.236**.

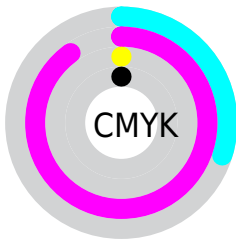
Distribution



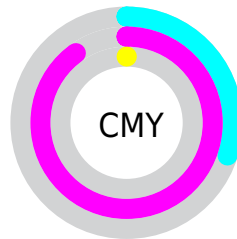
- Red (70%)
- Green (10%)
- Blue (100%)



- Red (70%)
- Yellow (10%)
- Blue (100%)



- Cyan (30%)
- Magenta (90%)
- Yellow (0%)
- Black (0%)





- Cyan (30%)
- Magenta (90%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 116.780, 316.863 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 49, 116.780, 316.863 by changing the saturation by 10% instead.


 49, 116.780,
316.863


 49, 116.780,
316.863


 100, 116.780,
316.863


 39, 116.780,
316.863


 69, 116.780,
316.863


 29, 116.780,
316.863


 79, 116.780,
316.863


 19, 116.780,
316.863


 89, 116.780,
316.863

 9, 116.780,
316.863

 99, 116.780,
316.863

 0, 116.780,
316.863

 49, 116.780,

 49, 116.780,

316.863

316.863

■ 47, 120.512,
316.213

■ 52, 109.718,
317.236

■ 47, 120.621,
316.189

■ 56, 99.670,
317.299

■ 61, 87.312,
317.142

■ 67, 73.460,
316.838

■ 73, 58.791,
316.447

■ 80, 43.796,
316.012

■ 87, 28.800,
315.564

■ 93, 14.004,
315.118

100, 0.012,
296.813

Harmonies

Complementary

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



49, 116.780, 316.863



89, 110.662, 131.941

Rectangle

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



49, 116.780, 316.863



49, 116.780, 6.863



49, 116.780, 136.863



49, 116.780, 186.863

Sweetspot

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



49, 116.698, 316.880



82, 39.797, 315.893



48, 88.746, 293.638



41, 26.876, 316.046



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 116.698, 316.880



47, 120.621, 316.189



59, 100.242, 335.479



49, 8.241, 315.111



35, 97.044, 316.363



8, 44.307, 317.605

Inverse Universe

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



55, 83.016, 13.821



54, 86.961, 19.441



88, 109.714, 139.051



50, 5.759, 354.660



40, 69.705, 18.361



10, 31.352, 10.442

Previews

White Background



This preview shows how the CIELCh color 49, 116.780, 316.863 looks on a white background.

Color Contrast Check

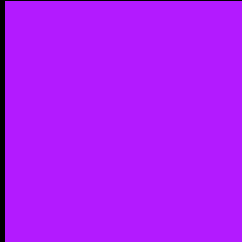
Large Text (above 18pt) WCAG AA ✓ Pass

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 49, 116.780, 316.863 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

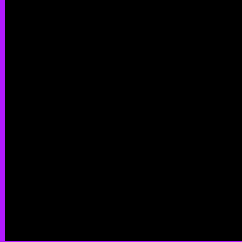
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 116.780, 316.863

Background



This preview shows how black text looks on a background with the CIELCh color 49, 116.780, 316.863.



This preview shows how white text looks on a background with the CIELCh color 49, 116.780, 316.863.

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

49, 116.780, 316.863

Protanopia

49, 72.718, 287.007

Deuteranopia

49, 52.302, 275.089



Tritanopia
49, 22.435, 12.016

Trichromacy



Original Color
49, 116.780, 316.863



Protanomaly
44, 95.662, 299.889



Deuteranomaly
43, 81.828, 297.534



Tritanomaly
46, 58.053, 327.525

Monochromacy



Original Color
49, 116.780, 316.863



Achromatopsia
42, 0.006, 296.813



Achromatomaly
41, 52.794, 317.106

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 116.780, 316.863 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(179, 26, 255)` looks like.

```
.text, #text, p{  
    color:rgb(179, 26, 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(179, 26, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 26, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 116.780, 316.863 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(179, 26, 255) }
```

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

```
.border{ border-color:rgb(179, 26, 255) }
```

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

Here you see how a box with a 4 pixel rgb(179, 26, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 26, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 26, 255);  
box-shadow:4px 4px 4px 4px rgb(179, 26,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 116.780, 316.863 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 26, 255) }
```

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

```
.background{ background-color: rgb(179, 26,  
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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