

Converting Colors

CIELCh(45, 118.223, 315.581)

Have a look what the booklet for
CIELCh(45, 118.223, 315.581)
contains.

CIELCh(45, 117.953, 315.673)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

CIELCh(45, 117.953, 315.673)

Conversions

Conversions Part 1

Format	Color
Hex	A205F8
RGB	162, 5, 248
RGB Percent	64%, 2%, 97%
CMY	0.3651, 0.9817, 0.0279
CMYK	0.35, 0.98, 0.00, 0.03
HSL	279°, 96%, 50%
HSV	279°, 98%, 97%
XYZ	31.8553, 14.5417, 89.8495
YIQ	79.6450, 15.5690, 108.8570

Conversions

Conversions Part 2

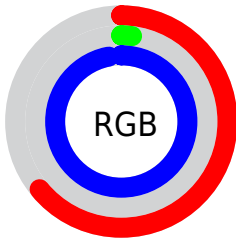
Format	Color
RYB	162, 5, 248
Decimal	10618360
CIELab	45.00, 84.38, -82.42
CIELCh	45, 117.953, 315.673
Yxy	14.5417, 0.2338, 0.1067
Android (android.graphics.Color)	4288808440 (0xFFA205F8)
YUV	79.6450, 82.9990, 72.2253
Hunter-Lab	38.1336, 82.3780, -113.0042

Details

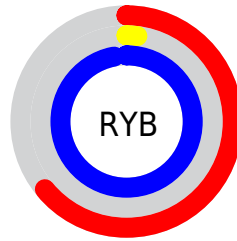
The CIELCh color **45, 117.953, 315.673** is a dark color, and the websafe version is hex **9900FF**. The color can be described as middle saturated purple. A complement of this color would be **87, 111.160, 132.159**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 94.750, 321.727**, and **30, 99.471, 312.491** is the 20% darker color. If you saturate the color by 10%, you get **45, 118.582, 315.539**, and if you desaturate by 10%, it is **47, 113.668, 316.313**.

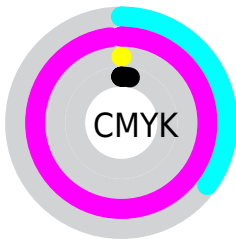
Distribution



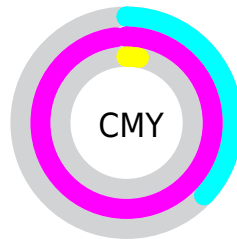
- Red (64%)
- Green (2%)
- Blue (97%)



- Red (64%)
- Yellow (2%)
- Blue (97%)



- Cyan (35%)
- Magenta (98%)
- Yellow (0%)
- Black (3%)





- Cyan (37%)
- Magenta (98%)
- Yellow (3%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 117.953, 315.673 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 45, 117.953, 315.673 by changing the saturation by 10% instead.


 45, 117.953,
315.673


 45, 117.953,
315.673


 100, 117.953,
315.673


 35, 117.953,
315.673


 65, 117.953,
315.673


 25, 117.953,
315.673


 75, 117.953,
315.673


 15, 117.953,
315.673


 85, 117.953,
315.673

 5, 117.953,
315.673


 95, 117.953,
315.673

 0, 117.953,
315.673


 45, 117.953,


 45, 117.953,


315.673

 45, 118.582,
315.539


315.673


 47, 113.668,
316.313


 51, 106.129,
316.613


 55, 95.713,
316.624

 60, 83.220,
316.425

 66, 69.444,
316.091

 72, 55.010,
315.680

 79, 40.358,
315.234

 85, 25.772,
314.782

■ 92, 11.421,
314.335

Harmonies

Complementary

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



45, 117.953, 315.673



87, 111.160, 132.159

Rectangle

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



45, 117.953, 315.673



45, 117.953, 5.673



45, 117.953, 135.673



45, 117.953, 185.673

Sweetspot

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



45, 117.953, 315.673



80, 42.616, 315.276



45, 90.546, 294.671



40, 29.321, 315.468



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 117.953, 315.673



46, 121.162, 315.523



57, 101.583, 334.367



49, 8.061, 314.397



34, 96.492, 315.713



7, 43.110, 316.978

Inverse Universe

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



53, 83.702, 16.240



54, 86.186, 17.346



86, 113.371, 137.315



49, 5.733, 353.195



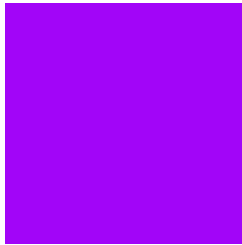
40, 68.445, 16.225



9, 30.462, 8.180

Previews

White Background



This preview shows how the CIE LCh color 45, 117.953, 315.673 looks on a white background.

Color Contrast Check

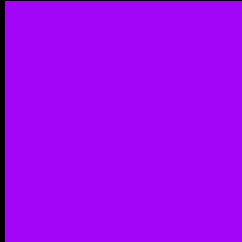
Large Text (above 18pt) WCAG AA ✓ Pass

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 45, 117.953, 315.673 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

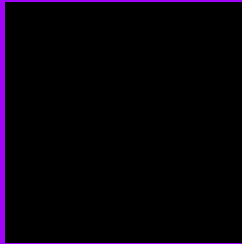
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 117.953, 315.673

Background



This preview shows how black text looks on a background with the CIELCh color 45, 117.953, 315.673.



This preview shows how white text looks on a background with the CIELCh color 45, 117.953, 315.673.

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

45, 117.953, 315.673

Protanopia

46, 68.449, 286.963

Deuteranopia

45, 48.856, 274.846



Tritanopia
45, 16.667, 7.386

Trichromacy



Original Color
45, 117.953, 315.673



Protanomaly
39, 96.235, 301.306



Deuteranomaly
38, 83.131, 299.474



Tritanomaly
41, 59.823, 323.711

Monochromacy



Original Color
45, 117.953, 315.673



Achromatopsia
34, 0.005, 296.813



Achromatomaly
33, 56.350, 316.524

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 117.953, 315.673 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(162, 5, 248)` looks like.

```
.text, #text, p{  
    color:rgb(162, 5, 248)  
}
```

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(162, 5, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 5, 248) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 117.953, 315.673 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(162, 5, 248) }
```

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

```
.border{ border-color:rgb(162, 5, 248) }
```

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

Here you see how a box with a 4 pixel rgb(162, 5, 248) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 5, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 5, 248);  
box-shadow:4px 4px 4px 4px rgb(162, 5,  
248) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 117.953, 315.673 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 5, 248) }
```

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

```
.background{ background-color: rgb(162, 5,  
248) }
```

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