

# Converting Colors

CIELCh(45, 117.765, 316.326)

Have a look what the booklet for  
CIELCh(45, 117.765, 316.326)  
contains.

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**Color**

**CIELCh(45, 117.314, 316.278)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A500F6
RGB	165, 0, 246
RGB Percent	65%, 0%, 96%
CMY	0.3548, 1.0000, 0.0371
CMYK	0.33, 1.00, 0.00, 0.04
HSL	280°, 100%, 48%
HSV	280°, 100%, 96%
XYZ	31.9665, 14.5417, 87.9417
YIQ	77.3790, 19.3740, 111.4860

# Conversions

## Conversions Part 2

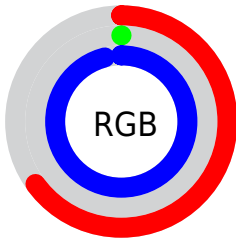
<b>Format</b>	<b>Color</b>
<b>RYB</b>	165, 0, 246
Decimal	10813686
CIELab	45.00, 84.78, -81.08
CIElCh	45, 117.314, 316.278
Yxy	14.5417, 0.2378, 0.1082
Android (android.graphics.Color)	4289003766 (0xFFA500F6)
YUV	77.3790, 83.1302, 76.8436
Hunter-Lab	38.1336, 82.8986, -110.0380

# Details

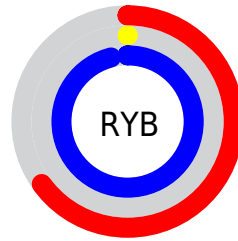
The CIELCh color **45, 117.314, 316.278** is a dark color, and the websafe version is hex **9900FF**. The color can be described as middle saturated purple. A complement of this color would be **86, 111.661, 132.809**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 95.261, 322.144**, and **31, 98.226, 313.028** is the 20% darker color. If you saturate the color by 10%, you get **45, 117.163, 316.258**, and if you desaturate by 10%, it is **47, 113.458, 316.920**.

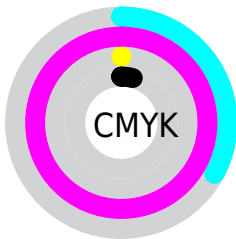
# Distribution



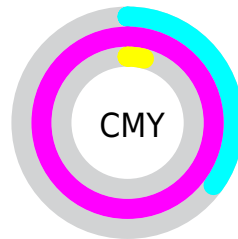
- Red (65%)
- Green (0%)
- Blue (96%)



- Red (65%)
- Yellow (0%)
- Blue (96%)



- Cyan (33%)
- Magenta (100%)
- Yellow (0%)
- Black (4%)




- Cyan (35%)
- Magenta (100%)
- Yellow (4%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 117.314, 316.278 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, 117.314, 316.278 by changing the saturation by 10% instead.





 45, 117.314,  
316.278


 45, 117.314,  
316.278


 100, 117.314,  
316.278


 35, 117.314,  
316.278


 65, 117.314,  
316.278


 25, 117.314,  
316.278


 75, 117.314,  
316.278


 15, 117.314,  
316.278


 85, 117.314,  
316.278

 5, 117.314,  
316.278

 95, 117.314,  
316.278


 0, 117.314,  
316.278


 45, 117.314,


 45, 117.314,


316.278

316.278


 45, 117.163,  
316.258


 47, 113.458,  
316.920

 50, 106.756,  
317.281


 54, 97.073,  
317.348

 59, 85.137,  
317.196

 65, 71.733,  
316.897

 71, 57.522,  
316.509

 77, 42.982,  
316.076

 83, 28.432,  
315.629

■ 90, 14.070,  
315.184

# Harmonies

# Complementary

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



45, 117.314, 316.278



86, 111.661, 132.809

# Rectangle

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



45, 117.314, 316.278



45, 117.314, 6.278



45, 117.314, 136.278



45, 117.314, 186.278

# Sweetspot

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



45, 117.163, 316.258



80, 44.321, 316.079



42, 96.838, 297.248



40, 30.303, 316.265



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, 117.163, 316.258



47, 120.583, 316.238



56, 98.389, 336.363



48, 7.972, 315.161



34, 95.069, 316.431



7, 41.624, 317.641



# Inverse Universe

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



52, 84.516, 19.466



54, 87.022, 19.592



85, 111.882, 137.652



48, 5.564, 354.764



39, 68.326, 18.395



9, 29.629, 9.234



# Previews

## White Background



This preview shows how the CIELCh color 45, 117.314, 316.278 looks on a white background.

## Color Contrast Check

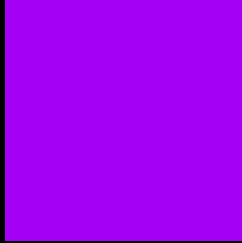
Large Text (above 18pt) WCAG AA ✓ Pass

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, 117.314, 316.278 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

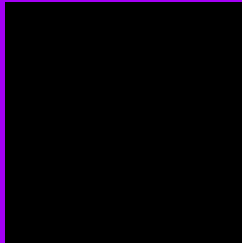
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 117.314, 316.278

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 117.314, 316.278.



This preview shows how white text looks on a background with the CIELCh color 45, 117.314, 316.278.





# 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, 117.314, 316.278

### Protanopia

46, 68.996, 287.168

### Deuteranopia

46, 48.843, 274.578



**Tritanopia**  
45, 18.815, 9.408

# Trichromacy



**Original Color**  
45, 117.314, 316.278



**Protanomaly**  
39, 96.852, 301.704



**Deuteranomaly**  
38, 83.732, 299.808



**Tritanomaly**  
41, 60.680, 325.104

# Monochromacy



**Original Color**  
45, 117.314, 316.278



**Achromatopsia**  
33, 0.005, 296.813



**Achromatomaly**  
32, 57.060, 317.363

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 117.314, 316.278 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(165, 0, 246)` looks like.

```
.text, #text, p{  
    color:rgb(165, 0, 246)  
}
```

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(165, 0, 246) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 0, 246) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 117.314, 316.278 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(165, 0, 246) }
```

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

```
.border{ border-color:rgb(165, 0, 246) }
```

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

Here you see how a box with a 4 pixel rgb(165, 0, 246) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 0, 246); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 0, 246);  
box-shadow:4px 4px 4px 4px rgb(165, 0,  
246) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 117.314, 316.278 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 0, 246) }
```

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

```
.background{ background-color: rgb(165, 0,  
246) }
```

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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