

# Converting Colors

CIELCh(46, 105.131, 321.797)

Have a look what the booklet for  
CIELCh(46, 105.131, 321.797)  
contains.

<b>CIELCh(46, 104.906, 321.767)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**CIELCh(46, 104.906, 321.767)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B700DC
RGB	183, 0, 220
RGB Percent	72%, 0%, 86%
CMY	0.2818, 0.9981, 0.1367
CMYK	0.17, 1.00, 0.00, 0.14
HSL	290°, 100%, 43%
HSV	290°, 100%, 86%
XYZ	32.5020, 15.2687, 69.0370
YIQ	79.7970, 38.4480, 107.2160

# Conversions

## Conversions Part 2

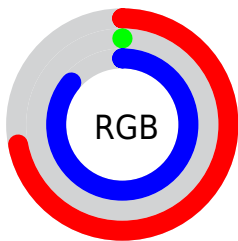
<b>Format</b>	<b>Color</b>
<b>RYB</b>	183, 0, 220
Decimal	11993308
CIELab	46.00, 82.40, -64.92
CIELCh	46, 104.906, 321.767
Yxy	15.2687, 0.2783, 0.1307
Android (android.graphics.Color)	4290183388 (0xFFB700DC)
YUV	79.7970, 69.1201, 90.5090
Hunter-Lab	39.0751, 80.0918, -77.3995

# Details

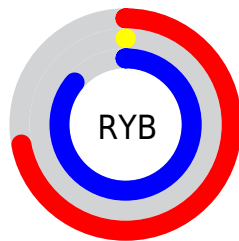
The CIELCh color **46, 104.906, 321.767** is a dark color, and the websafe version is hex **9900CC**. The color can be described as middle washed purple. A complement of this color would be **77, 105.787, 135.087**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 95.046, 325.323**, and **32, 85.191, 319.268** is the 20% darker color. If you saturate the color by 10%, you get **46, 104.958, 321.758**, and if you desaturate by 10%, it is **47, 102.126, 322.157**.

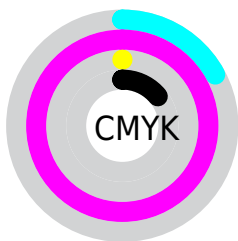
# Distribution



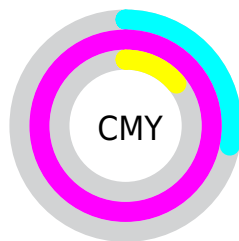
- Red (72%)
- Green (0%)
- Blue (86%)



- Red (72%)
- Yellow (0%)
- Blue (86%)



- Cyan (17%)
- Magenta (100%)
- Yellow (0%)
- Black (14%)




- Cyan (28%)
- Magenta (100%)
- Yellow (14%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 104.906, 321.767 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 46, 104.906, 321.767 by changing the saturation by 10% instead.





 46, 104.906,  
321.767


 46, 104.906,  
321.767


 100, 104.906,  
321.767


 36, 104.906,  
321.767


 66, 104.906,  
321.767


 26, 104.906,  
321.767


 76, 104.906,  
321.767


 16, 104.906,  
321.767

 86, 104.906,  
321.767

 6, 104.906,  
321.767

 96, 104.906,  
321.767

 0, 104.906,  
321.767

 46, 104.906,

 46, 104.906,

321.767

321.767

■ 46, 104.958,  
321.758

■ 47, 102.126,  
322.157

■ 50, 96.844,  
322.355

■ 53, 88.870,  
322.354

■ 56, 78.656,  
322.188

■ 61, 66.807,  
321.898

■ 66, 53.909,  
321.523

■ 71, 40.446,  
321.096

■ 76, 26.777,  
320.641

■ 82, 13.147,  
320.173

# Harmonies

# Complementary

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



46, 104.906, 321.767



77, 105.787, 135.087

# Rectangle

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



46, 104.906, 321.767



46, 104.906, 11.767



46, 104.906, 141.767



46, 104.906, 191.767

# Sweetspot

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



46, 104.905, 321.767



81, 45.909, 321.117



31, 107.374, 303.192



40, 31.313, 321.302



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



46, 104.905, 321.767



53, 117.306, 321.708



49, 81.566, 346.362



43, 7.606, 320.156



36, 87.804, 321.856



6, 33.750, 322.262



# Inverse Universe

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



46, 85.328, 32.265



53, 95.939, 32.822



77, 94.194, 141.458



43, 4.746, 6.483



36, 70.886, 31.459



5, 23.726, 12.988



# Previews

## White Background



This preview shows how the CIE LCh color 46, 104.906, 321.767 looks on a white background.

## Color Contrast Check

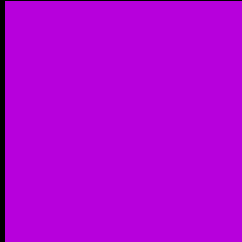
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 46, 104.906, 321.767 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

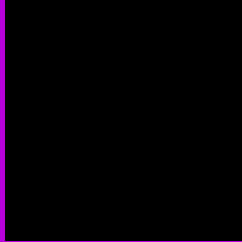
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 104.906, 321.767**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 104.906, 321.767.



This preview shows how white text looks on a background with the CIELCh color 46, 104.906, 321.767.





# 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

46, 104.906, 321.767

### Protanopia

47, 69.879, 286.978

### Deuteranopia

47, 51.908, 276.456



**Tritanopia**  
46, 35.363, 19.112

# Trichromacy



**Original Color**  
46, 104.906, 321.767



**Protanomaly**  
39, 92.324, 301.685



**Deuteranomaly**  
38, 80.746, 300.109



**Tritanomaly**  
43, 60.079, 339.044

# Monochromacy



**Original Color**  
46, 104.906, 321.767



**Achromatopsia**  
34, 0.005, 296.813



**Achromatomaly**  
34, 52.803, 322.346

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 104.906, 321.767 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(183, 0, 220)` looks like.

```
.text, #text, p{  
    color:rgb(183, 0, 220)  
}
```

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(183, 0, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 0, 220) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 104.906, 321.767 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(183, 0, 220) }
```

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

```
.border{ border-color:rgb(183, 0, 220) }
```

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

Here you see how a box with a 4 pixel rgb(183, 0, 220) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 0, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 0, 220);  
box-shadow:4px 4px 4px 4px rgb(183, 0,  
220) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 104.906, 321.767 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 0, 220) }
```

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

```
.background{ background-color: rgb(183, 0,  
220) }
```

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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