

# Converting Colors

CIELCh(44, 55.847, 316.850)

Have a look what the booklet for  
CIELCh(44, 55.847, 316.850)  
contains.

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**Color**

**CIELCh(44, 55.720, 316.733)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8A4FA8
RGB	138, 79, 168
RGB Percent	54%, 31%, 66%
CMY	0.4586, 0.6900, 0.3409
CMYK	0.18, 0.53, 0.00, 0.34
HSL	280°, 36%, 48%
HSV	280°, 53%, 66%
XYZ	20.3652, 13.8382, 38.6737
YIQ	106.7870, 6.5950, 40.1870

# Conversions

## Conversions Part 2

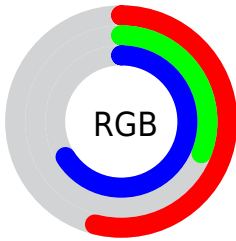
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	138, 79, 168
Decimal	9064360
CIE <sub>Lab</sub>	44.00, 40.57, -38.19
CIE <sub>LCh</sub>	44, 55.720, 316.733
Yxy	13.8382, 0.2794, 0.1899
Android (android.graphics.Color)	4287254440 (0xFF8A4FA8)
YUV	106.7870, 30.1780, 27.3738
Hunter-Lab	37.1997, 32.6211, -35.5995

# Details

The CIELCh color  $44, 55.720, 316.733$  is a dark color, and the websafe version is hex `9966CC`. A complement of this color would be  $63, 53.304, 132.000$ , and the grayscale version is  $45, 0.006, 296.813$ .

A 20% lighter version of the original color is  $64, 56.021, 316.586$ , and  $24, 55.286, 316.657$  is the 20% darker color. If you saturate the color by 10%, you get  $40, 65.456, 317.011$ , and if you desaturate by 10%, it is  $48, 45.345, 316.363$ .

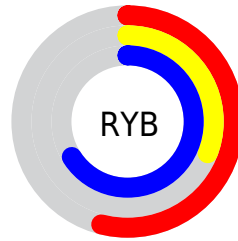
# Distribution



Red (54%)

Green (31%)

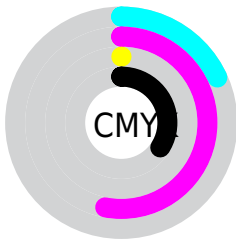
Blue (66%)



Red (54%)

Yellow (31%)

Blue (66%)

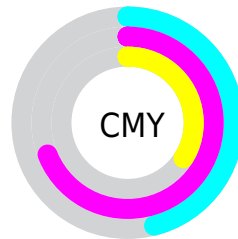


Cyan (18%)

Magenta (53%)

Yellow (0%)

Black (34%)



Cyan (46%)

Magenta (69%)


Yellow (34%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 44, 55.720, 316.733 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 44, 55.720, 316.733 by changing the saturation by 10% instead.





 44, 55.720,  
316.733


 44, 55.720,  
316.733


 100, 55.720,  
316.733


 34, 55.720,  
316.733

 64, 55.720,  
316.733


 24, 55.720,  
316.733

 74, 55.720,  
316.733

 14, 55.720,  
316.733

 84, 55.720,  
316.733

 4, 55.720, 316.733

 94, 55.720,  
316.733

 0, 55.720, 316.733

 44, 55.720,

 44, 55.720,

316.733

40, 65.456,  
317.011

36, 74.078,  
317.139

33, 81.024,  
317.048

31, 85.794,  
316.669

30, 88.212,  
316.291

316.733

48, 45.345,  
316.363

53, 34.690,  
315.944

58, 23.994,  
315.507

63, 13.411,  
315.071

67, 3.031, 314.619

72, 7.095, 134.300

77, 16.944,  
133.928

82, 26.509,  
133.597

■ 87, 35.790,  
133.298

# Harmonies

# Complementary

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



44, 55.720, 316.733



63, 53.304, 132.000

# Rectangle

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



44, 55.720, 316.733



44, 55.720, 6.733



44, 55.720, 136.733



44, 55.720, 186.733

# Sweetspot

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



44, 55.719, 316.733



78, 20.634, 315.216



47, 34.973, 279.587



40, 13.937, 315.301



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



44, 55.719, 316.733



51, 82.286, 317.055



47, 52.816, 332.078



33, 5.840, 314.912



26, 80.252, 316.396



1, 10.353, 312.006



# Inverse Universe

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



46, 39.827, 0.410



54, 58.681, 3.282



62, 53.162, 144.213



33, 4.098, 354.241



31, 57.262, 16.615



2, 7.167, 356.646



# Previews

## White Background



This preview shows how the CIELCh color 44, 55.720, 316.733 looks on a white background.

## Color Contrast Check

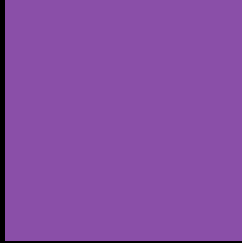
Large Text (above 18pt) WCAG AA ✓ Pass

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 44, 55.720, 316.733 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 44, 55.720, 316.733

## Background



This preview shows how black text looks on a background with the CIELCh color 44, 55.720, 316.733.

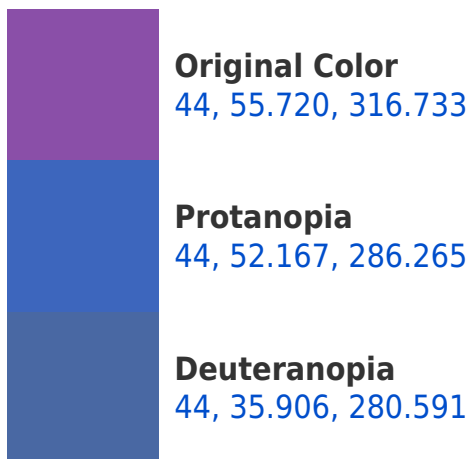


This preview shows how white text looks on a background with the CIELCh color 44, 55.720, 316.733.

# 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







**Tritanopia**  
44, 14.761, 2.712

# Trichromacy



**Original Color**  
44, 55.720, 316.733

**Protanomaly**  
43, 52.042, 295.540

**Deuteranomaly**  
43, 42.035, 296.673

**Tritanomaly**  
44, 28.103, 329.625

# Monochromacy



**Original Color**  
44, 55.720, 316.733

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
44, 20.877, 315.348

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 44, 55.720, 316.733 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(138, 79, 168)` looks like.

```
.text, #text, p{  
    color:rgb(138, 79, 168)  
}
```

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(138, 79, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 79, 168) }
```

## Border

The CSS property to change the border of an element to CIELCh 44, 55.720, 316.733 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(138, 79, 168) }
```

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

```
.border{ border-color:rgb(138, 79, 168) }
```

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

Here you see how a box with a 4 pixel rgb(138, 79, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 79, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 79, 168);  
box-shadow:4px 4px 4px 4px rgb(138, 79,  
168) }
```

# Background

The CSS property to change the background color of an element to CIELCh 44, 55.720, 316.733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 79, 168) }
```

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

```
.background{ background-color: rgb(138, 79,  
168) }
```

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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