

Converting Colors

CIELCh(45, 90.022, 311.624)

Have a look what the booklet for
CIELCh(45, 90.022, 311.624)
contains.

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Color

CIELCh(45, 89.930, 311.663)

Conversions

Conversions Part 1

Format	Color
Hex	8B42DD
RGB	139, 66, 221
RGB Percent	55%, 26%, 87%
CMY	0.4559, 0.7421, 0.1343
CMYK	0.37, 0.70, 0.00, 0.13
HSL	268°, 69%, 56%
HSV	268°, 70%, 87%
XYZ	25.5548, 14.5417, 69.6869
YIQ	105.4970, -6.2470, 63.6810

Conversions

Conversions Part 2

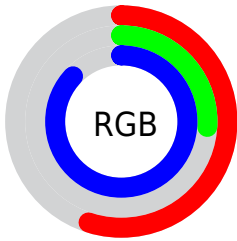
Format	Color
RYB	139, 66, 221
Decimal	9126621
CIELab	45.00, 59.78, -67.18
CIElCh	45, 89.930, 311.663
Yxy	14.5417, 0.2328, 0.1325
Android (android.graphics.Color)	4287316701 (0xFF8B42DD)
YUV	105.4970, 56.9430, 29.3821
Hunter-Lab	38.1336, 52.8861, -81.6554

Details

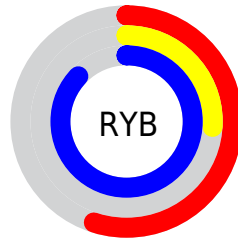
The CIELCh color **45, 89.930, 311.663** is a dark color, and the websafe version is hex **9933CC**. The color can be described as middle muted purple. A complement of this color would be **81, 80.036, 125.271**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **64, 78.100, 314.264**, and **25, 90.078, 311.604** is the 20% darker color. If you saturate the color by 10%, you get **40, 100.310, 311.839**, and if you desaturate by 10%, it is **50, 77.851, 311.260**.

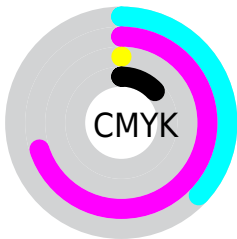
Distribution



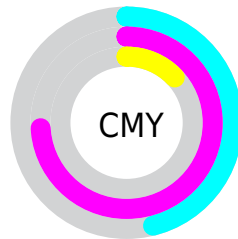
- Red (55%)
- Green (26%)
- Blue (87%)



- Red (55%)
- Yellow (26%)
- Blue (87%)



- Cyan (37%)
- Magenta (70%)
- Yellow (0%)
- Black (13%)



- Cyan (46%)
- Magenta (74%)
- Yellow (13%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 89.930, 311.663 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, 89.930, 311.663 by changing the saturation by 10% instead.


 45, 89.930,
311.663


 45, 89.930,
311.663


 100, 89.930,
311.663


 35, 89.930,
311.663

 65, 89.930,
311.663


 25, 89.930,
311.663

 75, 89.930,
311.663

 15, 89.930,
311.663

 85, 89.930,
311.663

 5, 89.930, 311.663

 95, 89.930,
311.663

 0, 89.930, 311.663

 45, 89.930,

 45, 89.930,

311.663

311.663

■ 40, 100.310,
311.839

■ 50, 77.851,
311.260

■ 37, 108.032,
311.661

■ 56, 64.889,
310.734

■ 34, 112.751,
311.125

■ 62, 51.608,
310.158


■ 69, 38.353,
309.579

■ 75, 25.318,
309.025

■ 81, 12.606,
308.509

■ 88, 0.264, 307.612

■ 94, 11.695,
127.650

 98, 17.847,
122.003

Harmonies

Complementary

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



45, 89.930, 311.663



81, 80.036, 125.271

Rectangle

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



45, 89.930, 311.663



45, 89.930, 1.663



45, 89.930, 131.663



45, 89.930, 181.663

Sweetspot

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



45, 89.929, 311.663



85, 29.616, 309.077



60, 44.112, 267.873



43, 20.122, 309.229



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, 89.929, 311.663



45, 116.135, 311.810



56, 90.017, 326.701



43, 6.965, 308.471



26, 93.988, 311.308



3, 31.029, 308.244

Inverse Universe

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



53, 67.205, 350.781



57, 82.512, 354.422



78, 91.295, 137.602



43, 5.750, 342.839



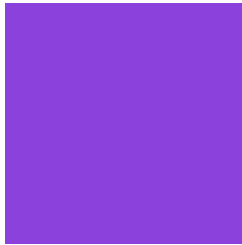
37, 63.882, 359.060



6, 25.385, 352.442

Previews

White Background



This preview shows how the CIELCh color 45, 89.930, 311.663 looks on a white background.

Color Contrast Check

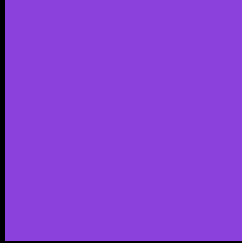
Large Text (above 18pt) WCAG AA ✓ Pass

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, 89.930, 311.663 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

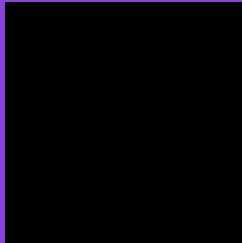
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 89.930, 311.663

Background



This preview shows how black text looks on a background with the CIELCh color 45, 89.930, 311.663.

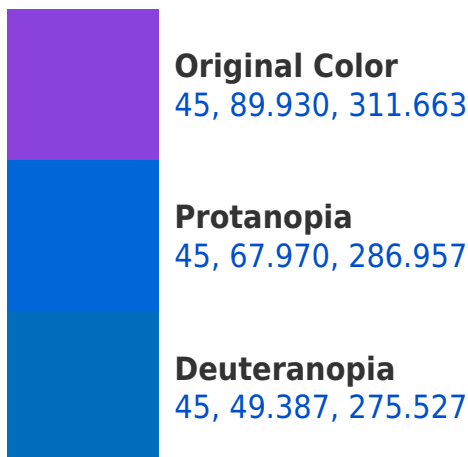


This preview shows how white text looks on a background with the CIELCh color 45, 89.930, 311.663.

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
45, 7.174, 338.684

Trichromacy



Original Color
45, 89.930, 311.663

Protanomaly
43, 76.887, 294.709

Deuteranomaly
42, 64.810, 291.050

Tritanomaly
44, 39.129, 313.140

Monochromacy



Original Color
45, 89.930, 311.663

Achromatopsia
44, 0.006, 296.813

Achromatomaly
43, 34.972, 309.756

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 89.930, 311.663 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(139, 66, 221)` looks like.

```
.text, #text, p{  
    color:rgb(139, 66, 221)  
}
```

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(139, 66, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 66, 221) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 89.930, 311.663 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(139, 66, 221) }
```

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

```
.border{ border-color:rgb(139, 66, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 66, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 66, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 66, 221);  
box-shadow:4px 4px 4px 4px rgb(139, 66,  
221) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 89.930, 311.663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 66, 221) }
```

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

```
.background{ background-color: rgb(139, 66,  
221) }
```

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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