

Converting Colors

CIELCh(45, 113.215, 310.250)

Have a look what the booklet for
CIELCh(45, 113.215, 310.250)
contains.

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Color

CIELCh(45, 113.233, 310.221)

Conversions

Conversions Part 1

Format	Color
Hex	8533FF
RGB	133, 51, 255
RGB Percent	52%, 20%, 100%
CMY	0.4790, 0.8005, 0.0005
CMYK	0.48, 0.80, 0.00, 0.00
HSL	264°, 100%, 60%
HSV	264°, 80%, 100%
XYZ	28.8562, 14.5417, 95.7807
YIQ	98.7740, -16.6120, 80.8280

Conversions

Conversions Part 2

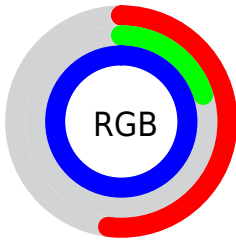
Format	Color
R _Y B	133, 51, 255
Decimal	8729599
CIE _{Lab}	45.00, 73.12, -86.46
CIE _{LCh}	45, 113.233, 310.221
Y _{xy}	14.5417, 0.2073, 0.1045
Android (android.graphics.Color)	4286919679 (0xFF8533FF)
Y _{UV}	98.7740, 77.0194, 30.0162
Hunter-Lab	38.1336, 68.3396, -122.2260

Details

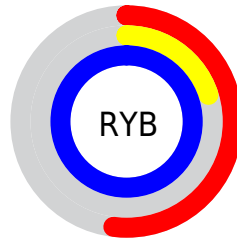
The CIELCh color **45, 113.233, 310.221** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **92, 96.342, 122.899**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **61, 84.236, 314.753**, and **27, 106.423, 308.694** is the 20% darker color. If you saturate the color by 10%, you get **41, 122.271, 310.172**, and if you desaturate by 10%, it is **50, 101.129, 309.892**.

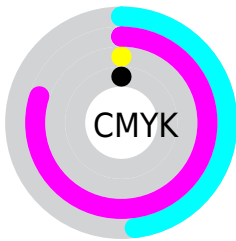
Distribution



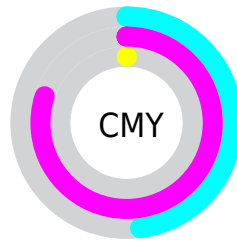
- Red (52%)
- Green (20%)
- Blue (100%)



- Red (52%)
- Yellow (20%)
- Blue (100%)



- Cyan (48%)
- Magenta (80%)
- Yellow (0%)
- Black (0%)





- Cyan (48%)
- Magenta (80%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 113.233, 310.221 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, 113.233, 310.221 by changing the saturation by 10% instead.


 45, 113.233,
310.221


 45, 113.233,
310.221


 100, 113.233,
310.221


 35, 113.233,
310.221


 65, 113.233,
310.221


 25, 113.233,
310.221


 75, 113.233,
310.221


 15, 113.233,
310.221


 85, 113.233,
310.221

 5, 113.233,
310.221

 95, 113.233,
310.221

 0, 113.233,
310.221

 45, 113.233,

 45, 113.233,

310.221

310.221

■ 41, 122.271,
310.172

■ 50, 101.129,
309.892

■ 38, 127.641,
309.692

■ 57, 87.185,
309.331

■ 63, 72.383,
308.662

■ 70, 57.355,
307.965

■ 78, 42.466,
307.287

■ 85, 27.906,
306.655

■ 93, 13.763,
306.079

100, 0.071,
304.145

100, 0.056,
108.798

Harmonies

Complementary

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



45, 113.233, 310.221



92, 96.342, 122.899

Rectangle

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



45, 113.233, 310.221



45, 113.233, 0.221



45, 113.233, 130.221



45, 113.233, 180.221

Sweetspot

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



45, 113.233, 310.222



82, 33.633, 306.899



68, 49.982, 263.586



41, 23.230, 307.125



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, 113.233, 310.222



39, 125.821, 309.909



59, 108.644, 324.619



49, 7.787, 306.049



28, 102.633, 309.876



5, 44.898, 310.242

Inverse Universe

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



59, 83.518, 348.306



56, 86.957, 352.502



88, 109.879, 135.917



50, 6.828, 339.412



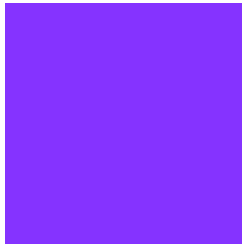
42, 70.299, 353.148



11, 33.119, 349.095

Previews

White Background



This preview shows how the CIELCh color 45, 113.233, 310.221 looks on a white background.

Color Contrast Check

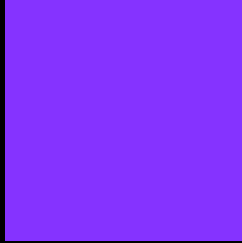
Large Text (above 18pt) WCAG AA ✓ Pass

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, 113.233, 310.221 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

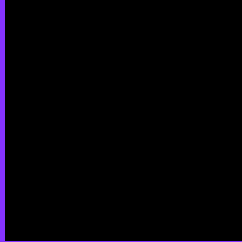
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 113.233, 310.221

Background



This preview shows how black text looks on a background with the CIELCh color 45, 113.233, 310.221.



This preview shows how white text looks on a background with the CIELCh color 45, 113.233, 310.221.

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

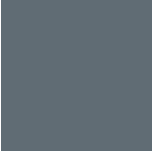
45, 113.233, 310.221

Protanopia

45, 68.040, 287.161

Deuteranopia

45, 47.326, 273.819



Tritanopia
45, 6.565, 245.896

Trichromacy



Original Color
45, 113.233, 310.221



Protanomaly
42, 87.311, 297.322



Deuteranomaly
42, 73.111, 293.910



Tritanomaly
42, 48.097, 304.660

Monochromacy



Original Color
45, 113.233, 310.221



Achromatopsia
42, 0.006, 296.813



Achromatomaly
41, 46.507, 308.358

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 113.233, 310.221 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(133, 51, 255)` looks like.

```
.text, #text, p{  
    color:rgb(133, 51, 255)  
}
```

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(133, 51, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 51, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 113.233, 310.221 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(133, 51, 255) }
```

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

```
.border{ border-color:rgb(133, 51, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 51, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(133, 51, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(133, 51, 255); box-shadow:4px 4px 4px 4px rgb(133, 51, 255) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 113.233, 310.221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 51, 255) }
```

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

```
.background{ background-color: rgb(133, 51,  
255) }
```

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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