

Converting Colors

CIELCh(45, 68.640, 331.724)

Have a look what the booklet for
CIELCh(45, 68.640, 331.724)
contains.

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Color

CIELCh(45, 68.805, 331.733)

Conversions

Conversions Part 1

Format	Color
Hex	B037A2
RGB	176, 55, 162
RGB Percent	69%, 22%, 64%
CMY	0.3103, 0.7848, 0.3651
CMYK	0.00, 0.69, 0.08, 0.31
HSL	307°, 52%, 45%
HSV	307°, 69%, 69%
XYZ	25.7499, 14.5417, 35.5805
YIQ	103.3770, 37.7690, 58.9290

Conversions

Conversions Part 2

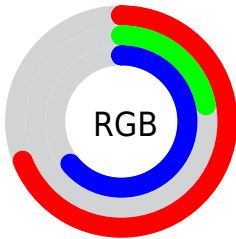
Format	Color
R_{YB}	176, 55, 162
Decimal	11548578
CIE _{Lab}	45.00, 60.60, -32.58
CIE _{LCh}	45, 68.805, 331.733
Yxy	14.5417, 0.3394, 0.1917
Android (android.graphics.Color)	4289738658 (0xFFB037A2)
YUV	103.3770, 28.9011, 63.6904
Hunter-Lab	38.1336, 53.7994, -28.6270

Details

The CIELCh color **45, 68.805, 331.733** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **64, 70.626, 141.109**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 68.491, 331.706**, and **27, 62.144, 331.709** is the 20% darker color. If you saturate the color by 10%, you get **43, 74.529, 332.274**, and if you desaturate by 10%, it is **48, 61.203, 331.178**.

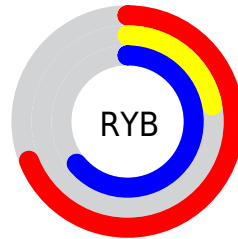
Distribution



Red (69%)

Green (22%)

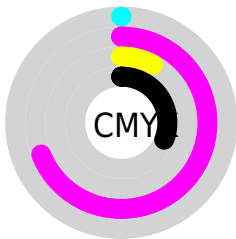
Blue (64%)



Red (69%)

Yellow (22%)

Blue (64%)

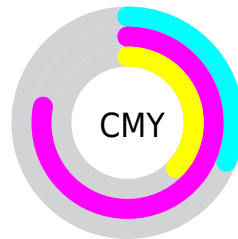


Cyan (0%)

Magenta (69%)

Yellow (8%)

Black (31%)



Cyan (31%)


Magenta (78%)


Yellow (37%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 68.805, 331.733 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 45, 68.805, 331.733 by changing the saturation by 10% instead.


 45, 68.805,
331.733


 45, 68.805,
331.733


 100, 68.805,
331.733


 35, 68.805,
331.733

 65, 68.805,
331.733


 25, 68.805,
331.733

 75, 68.805,
331.733

 15, 68.805,
331.733

 85, 68.805,
331.733

 5, 68.805, 331.733

 95, 68.805,
331.733

 0, 68.805, 331.733

 45, 68.805,

 45, 68.805,

331.733

■ 43, 74.529,
332.274

■ 41, 78.108,
332.812

■ 41, 79.747,
333.359

■ 41, 79.910,
333.425

331.733

■ 48, 61.203,
331.178

■ 51, 52.153,
330.606

■ 55, 42.104,
330.020

■ 59, 31.458,
329.426

■ 63, 20.534,
328.829

■ 68, 9.565, 328.230

■ 72, 1.289, 147.887

■ 77, 11.930,
147.154

■ 82, 22.298,
146.613

Harmonies

Complementary

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



45, 68.805, 331.733



64, 70.626, 141.109

Rectangle

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



45, 68.805, 331.733



45, 68.805, 21.733



45, 68.805, 151.733



45, 68.805, 201.733

Sweetspot

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



45, 68.803, 331.733



79, 28.497, 328.983



32, 74.823, 303.043



40, 19.271, 329.143



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



45, 68.803, 331.733



55, 93.737, 332.578



43, 52.814, 359.518



34, 6.087, 328.260



34, 71.306, 333.352



2, 12.366, 329.290

Inverse Universe

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



45, 68.803, 331.733



55, 93.737, 332.578



64, 47.355, 161.150



34, 6.087, 328.260



34, 71.306, 333.352



2, 12.366, 329.290

Previews

White Background



This preview shows how the CIELCh color 45, 68.805, 331.733 looks on a white background.

Color Contrast Check

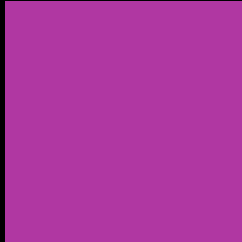
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 45, 68.805, 331.733 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

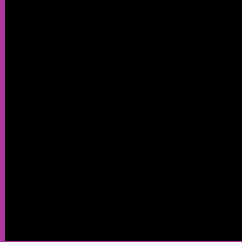
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

CIELCh 45, 68.805, 331.733

Background



This preview shows how black text looks on a background with the CIELCh color 45, 68.805, 331.733.

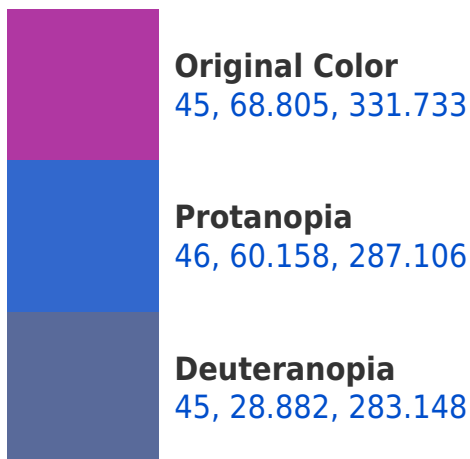


This preview shows how white text looks on a background with the CIELCh color 45, 68.805, 331.733.

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
45, 39.832, 21.550

Trichromacy



Original Color
45, 68.805, 331.733

Protanomaly
42, 61.775, 300.625

Deuteranomaly
43, 43.552, 310.819

Tritanomaly
45, 45.777, 356.046

Monochromacy



Original Color
45, 68.805, 331.733

Achromatopsia
44, 0.006, 296.813

Achromatomaly
43, 28.424, 330.366

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 68.805, 331.733 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(176, 55, 162)` looks like.

```
.text, #text, p{  
    color:rgb(176, 55, 162)  
}
```

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(176, 55, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 55, 162) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 68.805, 331.733 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(176, 55, 162) }
```

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

```
.border{ border-color:rgb(176, 55, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 55, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(176, 55, 162); -webkit-box-shadow:4px 4px 4px 4px rgb(176, 55, 162); box-shadow:4px 4px 4px 4px rgb(176, 55, 162) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 68.805, 331.733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 55, 162) }
```

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

```
.background{ background-color: rgb(176, 55,  
162) }
```

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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