

Converting Colors

CIELCh(45, 69.699, 331.703)

Have a look what the booklet for
CIELCh(45, 69.699, 331.703)
contains.

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Color

CIELCh(45, 69.699, 331.703)

Conversions

Conversions Part 1

Format	Color
Hex	B136A3
RGB	177, 54, 163
RGB Percent	69%, 21%, 64%
CMY	0.3073, 0.7897, 0.3621
CMYK	0.00, 0.70, 0.08, 0.31
HSL	307°, 53%, 45%
HSV	307°, 70%, 69%
XYZ	25.9343, 14.5417, 35.9347
YIQ	103.2030, 38.3190, 59.9750

Conversions

Conversions Part 2

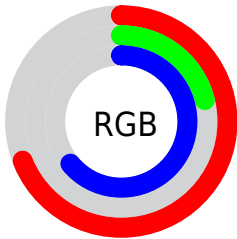
Format	Color
R_{YB}	177, 54, 163
Decimal	11613859
CIE _{Lab}	45.00, 61.37, -33.04
CIE _{LCh}	45, 69.699, 331.703
Yxy	14.5417, 0.3394, 0.1903
Android (android.graphics.Color)	4289803939 (0xFFB136A3)
YUV	103.2030, 29.4799, 64.7200
Hunter-Lab	38.1336, 54.6622, -29.1776

Details

The CIELCh color **45, 69.699, 331.703** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **64, 71.639, 140.936**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 69.545, 331.664**, and **27, 62.544, 331.681** is the 20% darker color. If you saturate the color by 10%, you get **43, 75.274, 332.238**, and if you desaturate by 10%, it is **48, 62.206, 331.154**.

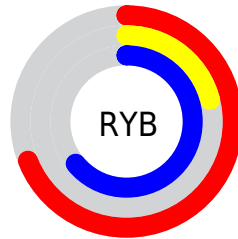
Distribution



Red (69%)

Green (21%)

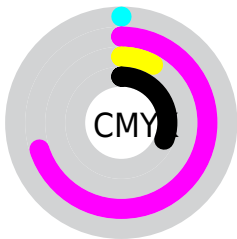
Blue (64%)



Red (69%)

Yellow (21%)

Blue (64%)

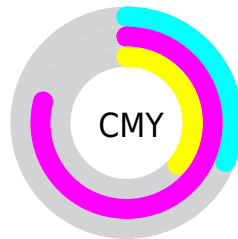


Cyan (0%)

Magenta (70%)

Yellow (8%)

Black (31%)



Cyan (31%)


Magenta (79%)


Yellow (36%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 69.699, 331.703 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, 69.699, 331.703 by changing the saturation by 10% instead.


 45, 69.699,
331.703


 45, 69.699,
331.703


 100, 69.699,
331.703


 35, 69.699,
331.703

 65, 69.699,
331.703


 25, 69.699,
331.703

 75, 69.699,
331.703

 15, 69.699,
331.703

 85, 69.699,
331.703

 5, 69.699, 331.703

 95, 69.699,
331.703

 0, 69.699, 331.703

 45, 69.699,

 45, 69.699,

331.703

43, 75.274,
332.238

42, 78.683,
332.768

41, 80.241,
333.306

41, 80.290,
333.325

331.703

48, 62.206,
331.154

51, 53.220,
330.586

55, 43.191,
330.003

59, 32.531,
329.411

63, 21.567,
328.816

68, 10.541,
328.219

72, 0.382, 148.353

77, 11.096,
147.140

■ 82, 21.540,
146.596

Harmonies

Complementary

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



45, 69.699, 331.703



64, 71.639, 140.936

Rectangle

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



45, 69.699, 331.703



45, 69.699, 21.703



45, 69.699, 151.703



45, 69.699, 201.703

Sweetspot

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



45, 69.697, 331.703



79, 28.537, 328.919



32, 76.048, 303.187



40, 19.298, 329.078



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, 69.697, 331.703



55, 94.283, 332.545



43, 53.486, 359.751



35, 6.244, 328.200



35, 72.291, 333.260



2, 14.478, 329.400

Inverse Universe

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



45, 69.697, 331.703



55, 94.283, 332.545



65, 47.959, 161.000



35, 6.244, 328.200



35, 72.291, 333.260



2, 14.478, 329.400

Previews

White Background



This preview shows how the CIELCh color 45, 69.699, 331.703 looks on a white background.

Color Contrast Check

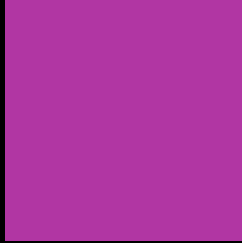
Large Text (above 18pt) WCAG AA ✓ Pass

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, 69.699, 331.703 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

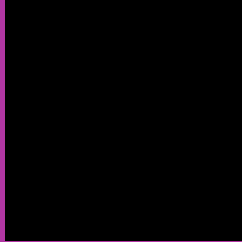
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 69.699, 331.703

Background



This preview shows how black text looks on a background with the CIELCh color 45, 69.699, 331.703.

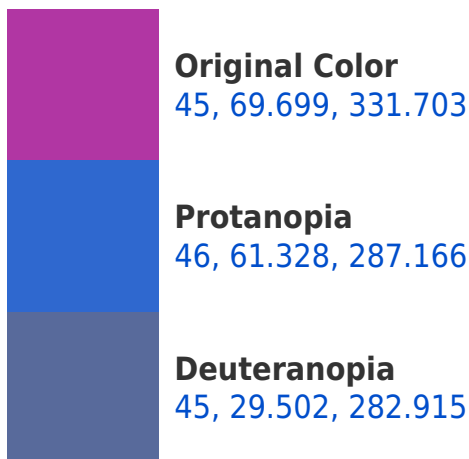


This preview shows how white text looks on a background with the CIELCh color 45, 69.699, 331.703.

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](#).

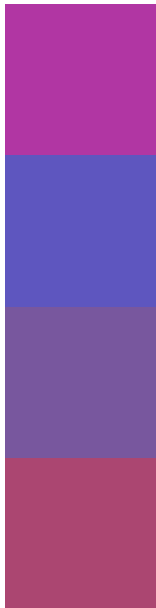
Dichromacy





Tritanopia
45, 39.832, 21.550

Trichromacy



Original Color
45, 69.699, 331.703

Protanomaly
42, 62.924, 300.206

Deuteranomaly
43, 44.043, 310.180

Tritanomaly
45, 45.943, 355.352

Monochromacy



Original Color
45, 69.699, 331.703

Achromatopsia
44, 0.006, 296.813

Achromatomaly
42, 29.563, 329.571

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 69.699, 331.703 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(177, 54, 163)` looks like.

```
.text, #text, p{  
    color:rgb(177, 54, 163)  
}
```

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(177, 54, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 54, 163) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 69.699, 331.703 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(177, 54, 163) }
```

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

```
.border{ border-color:rgb(177, 54, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 54, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 54, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 54, 163);  
box-shadow:4px 4px 4px 4px rgb(177, 54,  
163) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 69.699, 331.703 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 54, 163) }
```

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

```
.background{ background-color: rgb(177, 54,  
163) }
```

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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