

Converting Colors

CIELCh(23, 99.027, 308.027)

Have a look what the booklet for
CIELCh(23, 99.027, 308.027)
contains.

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Color

CIELCh(23, 99.177, 307.998)

Conversions

Conversions Part 1

Format	Color
Hex	3000B1
RGB	48, 0, 177
RGB Percent	19%, 0%, 69%
CMY	0.8119, 1.0000, 0.3060
CMYK	0.73, 1.00, 0.00, 0.31
HSL	256°, 100%, 35%
HSV	256°, 100%, 69%
XYZ	9.1505, 3.8003, 41.8339
YIQ	34.5300, -28.2090, 65.2230

Conversions

Conversions Part 2

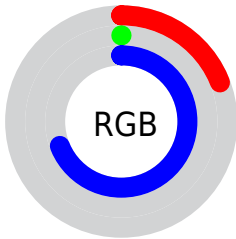
Format	Color
R _Y B	48, 0, 177
Decimal	3145905
CIE Lab	23.00, 61.06, -78.15
CIE LCh	23, 99.177, 307.998
Yxy	3.8003, 0.1670, 0.0694
Android (android.graphics.Color)	4281335985 (0xFF3000B1)
YUV	34.5300, 70.2377, 11.8132
Hunter-Lab	19.4944, 49.6713, -113.5868

Details

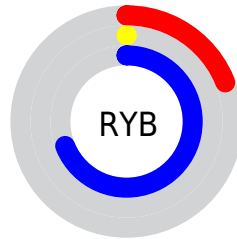
The CIELCh color **23, 99.177, 307.998** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **67, 77.032, 118.408**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 99.274, 307.997**, and **12, 78.003, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **23, 99.169, 307.997**, and if you desaturate by 10%, it is **26, 93.711, 307.910**.

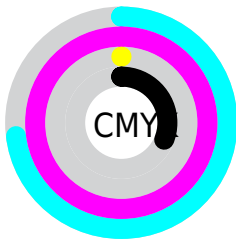
Distribution



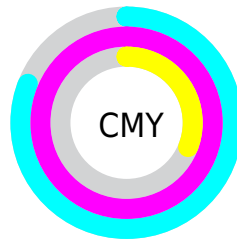
- Red (19%)
- Green (0%)
- Blue (69%)



- Red (19%)
- Yellow (0%)
- Blue (69%)



- Cyan (73%)
- Magenta (100%)
- Yellow (0%)
- Black (31%)





- Cyan (81%)
- Magenta (100%)
- Yellow (31%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 99.177, 307.998 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 23, 99.177, 307.998 by changing the saturation by 10% instead.

 23, 99.177,
307.998


 23, 99.177,
307.998

 100, 99.177,
307.998


 13, 99.177,
307.998


 43, 99.177,
307.998


 3, 99.177, 307.998

 53, 99.177,
307.998

 0, 99.177, 307.998

 63, 99.177,
307.998

 73, 99.177,
307.998

 83, 99.177,
307.998

 93, 99.177,

307.998

■ 23, 99.177,
307.998

■ 23, 99.177,
307.998

■ 23, 99.169,
307.997

■ 26, 93.711,
307.910

■ 29, 85.796,
307.466

■ 33, 75.808,
306.672

■ 38, 64.780,
305.707

■ 44, 53.415,
304.701

■ 49, 42.109,
303.732

■ 55, 31.056,
302.839

■ 61, 20.341,
302.037

■ 66, 9.992, 301.327

Harmonies

Complementary

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



23, 99.177, 307.998



67, 77.032, 118.408

Rectangle

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



23, 99.177, 307.998



23, 99.177, 357.998



23, 99.177, 127.998



23, 99.177, 177.998

Sweetspot

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



23, 99.169, 307.997



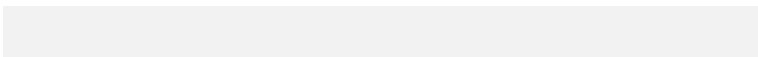
70, 38.397, 302.883



51, 35.450, 249.482



34, 26.354, 303.241



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



23, 99.169, 307.997



31, 120.678, 307.855



35, 89.991, 319.577



35, 5.692, 301.282



19, 88.959, 308.095



1, 13.479, 298.352

Inverse Universe

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



39, 71.570, 342.748



51, 86.653, 343.072



63, 88.879, 134.190



35, 5.585, 333.721



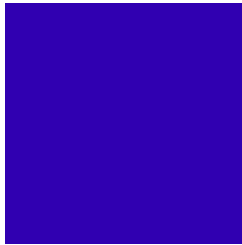
34, 64.421, 342.533



2, 12.505, 337.240

Previews

White Background



This preview shows how the CIE LCh color 23, 99.177, 307.998 looks on a white background.

Color Contrast Check

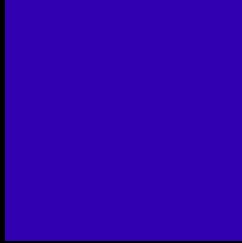
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIE LCh color 23, 99.177, 307.998 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

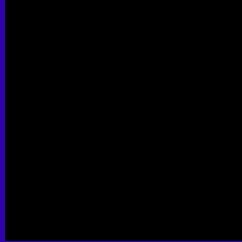
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 99.177, 307.998

Background



This preview shows how black text looks on a background with the CIELCh color 23, 99.177, 307.998.



This preview shows how white text looks on a background with the CIELCh color 23, 99.177, 307.998.

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

23, 99.177, 307.998

Protanopia

24, 40.691, 284.159

Deuteranopia

24, 28.331, 269.603



Tritanopia
24, 18.177, 202.895

Trichromacy



Original Color
23, 99.177, 307.998

Protanomaly
21, 67.565, 300.384

Deuteranomaly
20, 59.224, 298.464

Tritanomaly
19, 44.785, 293.553

Monochromacy



Original Color
23, 99.177, 307.998

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 45.170, 306.753

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 99.177, 307.998 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(48, 0, 177)` looks like.

```
.text, #text, p{  
    color:rgb(48, 0, 177)  
}
```

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(48, 0, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 0, 177) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 99.177, 307.998 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(48, 0, 177) }
```

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

```
.border{ border-color:rgb(48, 0, 177) }
```

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

Here you see how a box with a 4 pixel rgb(48, 0, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 0, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 0, 177);  
box-shadow:4px 4px 4px 4px rgb(48, 0, 177)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 99.177, 307.998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 0, 177) }
```

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

```
.background{ background-color: rgb(48, 0,  
177) }
```

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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