

Converting Colors

CIELCh(23, 98.642, 308.087)

Have a look what the booklet for
CIELCh(23, 98.642, 308.087)
contains.

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Color

CIELCh(23, 98.642, 308.087)

Conversions

Conversions Part 1

Format	Color
Hex	3100B0
RGB	49, 0, 176
RGB Percent	19%, 0%, 69%
CMY	0.8071, 0.9994, 0.3093
CMYK	0.72, 1.00, 0.00, 0.31
HSL	257°, 100%, 35%
HSV	257°, 100%, 69%
XYZ	9.1255, 3.8003, 41.3900
YIQ	34.7150, -27.2920, 65.1240

Conversions

Conversions Part 2

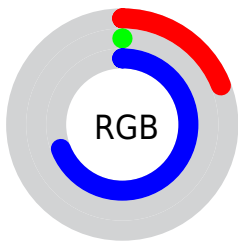
Format	Color
R_{YB}	49, 0, 176
Decimal	3211440
CIE Lab	23.00, 60.85, -77.64
CIE LCh	23, 98.642, 308.087
Yxy	3.8003, 0.1680, 0.0700
Android (android.graphics.Color)	4281401520 (0xFF3100B0)
YUV	34.7150, 69.6535, 12.5279
Hunter-Lab	19.4944, 49.4426, -112.2370

Details

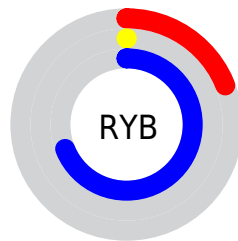
The CIELCh color **23, 98.642, 308.087** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **66, 76.899, 118.776**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 98.731, 308.157**, and **12, 77.548, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **23, 98.690, 308.090**, and if you desaturate by 10%, it is **26, 93.196, 308.022**.

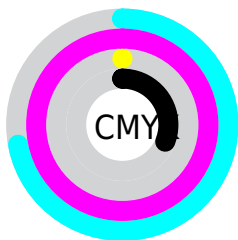
Distribution



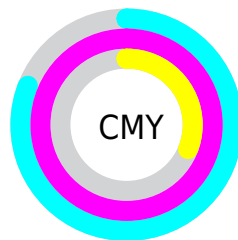
- Red (19%)
- Green (0%)
- Blue (69%)



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



- Cyan (72%)
- Magenta (100%)
- Yellow (0%)
- Black (31%)





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


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 98.642, 308.087 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, 98.642, 308.087 by changing the saturation by 10% instead.

 23, 98.642,
308.087


 23, 98.642,
308.087

 100, 98.642,
308.087


 13, 98.642,
308.087


 43, 98.642,
308.087


 3, 98.642, 308.087

 53, 98.642,
308.087

 0, 98.642, 308.087

 63, 98.642,
308.087

 73, 98.642,
308.087

 83, 98.642,
308.087

 93, 98.642,

308.087

■ 23, 98.642,
308.087

■ 23, 98.642,
308.087

■ 23, 98.690,
308.090

■ 26, 93.196,
308.022

■ 29, 85.316,
307.601

■ 33, 75.387,
306.832

■ 38, 64.423,
305.893

■ 44, 53.119,
304.911

■ 49, 41.867,
303.962

■ 55, 30.861,
303.086

■ 61, 20.187,
302.298

■ 66, 9.875, 301.599

Harmonies

Complementary

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



23, 98.642, 308.087



66, 76.899, 118.776

Rectangle

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



23, 98.642, 308.087



23, 98.642, 358.087



23, 98.642, 128.087



23, 98.642, 178.087

Sweetspot

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



23, 98.644, 308.088



70, 38.422, 303.137



51, 35.304, 249.425



34, 26.369, 303.489



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, 98.644, 308.088



31, 120.534, 307.942



35, 89.642, 319.584



35, 5.697, 301.561



19, 88.850, 308.187



1, 13.488, 298.576

Inverse Universe

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



39, 70.950, 343.258



51, 86.211, 343.617



63, 88.529, 134.184



35, 5.555, 334.020



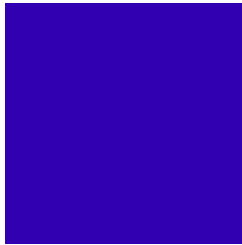
34, 64.097, 343.056



2, 12.424, 337.641

Previews

White Background



This preview shows how the CIE LCh color 23, 98.642, 308.087 looks on a white background.

Color Contrast Check

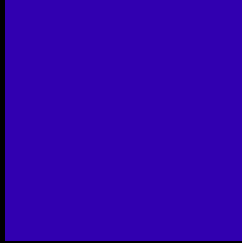
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 23, 98.642, 308.087 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

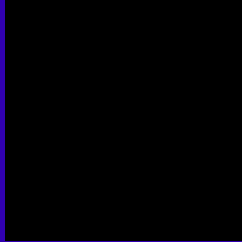
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 98.642, 308.087

Background



This preview shows how black text looks on a background with the CIELCh color 23, 98.642, 308.087.



This preview shows how white text looks on a background with the CIELCh color 23, 98.642, 308.087.

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, 98.642, 308.087

Protanopia

24, 40.691, 284.159

Tritanopia

24, 18.078, 205.125

Trichromacy



Original Color
23, 98.642, 308.087

Protanomaly
21, 66.972, 300.369

Tritanomaly
19, 44.767, 293.714

Monochromacy



Original Color
23, 98.642, 308.087

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 44.556, 306.818

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 98.642, 308.087 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(49, 0, 176)` looks like.

```
.text, #text, p{  
    color:rgb(49, 0, 176)  
}
```

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(49, 0, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 0, 176) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 98.642, 308.087 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(49, 0, 176) }
```

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

```
.border{ border-color:rgb(49, 0, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 0, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 0, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 0, 176);  
box-shadow:4px 4px 4px 4px rgb(49, 0, 176)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 98.642, 308.087 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 0, 176) }
```

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

```
.background{ background-color: rgb(49, 0,  
176) }
```

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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