

Converting Colors

CIELCh(23, 84.858, 312.358)

Have a look what the booklet for
CIELCh(23, 84.858, 312.358)
contains.

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Color

CIELCh(23, 84.559, 312.220)

Conversions

Conversions Part 1

Format	Color
Hex	4D0098
RGB	77, 0, 152
RGB Percent	30%, 0%, 60%
CMY	0.6998, 1.0000, 0.4055
CMYK	0.49, 1.00, 0.00, 0.41
HSL	270°, 100%, 30%
HSV	270°, 100%, 59%
XYZ	8.6525, 3.8003, 29.8077
YIQ	40.3510, -2.9000, 63.5960

Conversions

Conversions Part 2

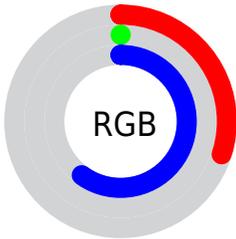
Format	Color
R_{YB}	77, 0, 152
Decimal	5046424
CIE _{Lab}	23.00, 56.82, -62.62
CIE _{LCh}	23, 84.559, 312.220
Yxy	3.8003, 0.2047, 0.0899
Android (android.graphics.Color)	4283236504 (0xFF4D0098)
YUV	40.3510, 55.0430, 32.1412
Hunter-Lab	19.4944, 45.1115, -77.0107

Details

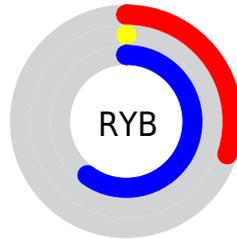
The CIELCh color **23, 84.559, 312.220** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **56, 73.937, 127.956**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 84.601, 312.037**, and **9, 66.881, 306.711** is the 20% darker color. If you saturate the color by 10%, you get **23, 84.417, 312.187**, and if you desaturate by 10%, it is **25, 79.996, 312.561**.

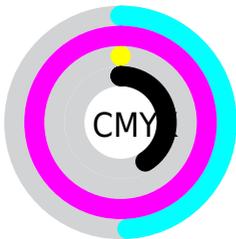
Distribution



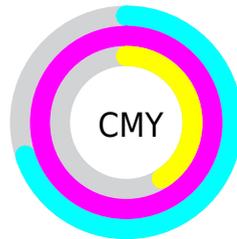
- Red (30%)
- Green (0%)
- Blue (60%)



- Red (30%)
- Yellow (0%)
- Blue (60%)



- Cyan (49%)
- Magenta (100%)
- Yellow (0%)
- Black (41%)



- Cyan (70%)
- Magenta (100%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 84.559, 312.220 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, 84.559, 312.220 by changing the saturation by 10% instead.

 23, 84.559,
312.220

 23, 84.559,
312.220

 100, 84.559,
312.220

 13, 84.559,
312.220

 43, 84.559,
312.220

 3, 84.559, 312.220

 53, 84.559,
312.220

 0, 84.559, 312.220

 63, 84.559,
312.220

 73, 84.559,
312.220

 83, 84.559,
312.220

 93, 84.559,

312.220

■ 23, 84.559,
312.220

■ 23, 84.559,
312.220

■ 23, 84.417,
312.187

■ 25, 79.996,
312.561

■ 28, 73.954,
312.698

■ 31, 66.148,
312.533

■ 35, 57.214,
312.171

■ 40, 47.680,
311.700

■ 44, 37.917,
311.182

■ 49, 28.159,
310.656

■ 53, 18.545,
310.148

■ 58, 9.149, 309.669

Harmonies

Complementary

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



23, 84.559, 312.220



56, 73.937, 127.956

Rectangle

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



23, 84.559, 312.220



23, 84.559, 2.220



23, 84.559, 132.220



23, 84.559, 182.220

Sweetspot

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



23, 84.417, 312.187



62, 34.792, 310.687



33, 48.248, 283.313



30, 24.024, 310.890



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



23, 84.417, 312.187



31, 102.434, 311.965



36, 78.394, 328.233



30, 5.204, 309.633



21, 79.703, 312.265



1, 5.549, 308.946

Inverse Universe

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



32, 57.513, 1.749



42, 69.540, 2.681



54, 81.251, 136.016



30, 4.171, 344.629



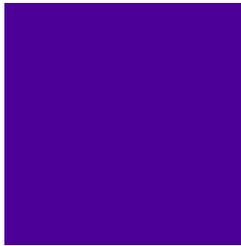
29, 54.372, 1.428



1, 4.433, 344.371

Previews

White Background



This preview shows how the CIE LCh color 23, 84.559, 312.220 looks on a white background.

Color Contrast Check

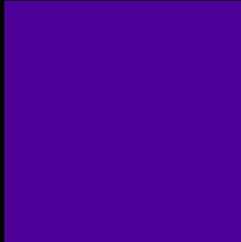
Large Text (above 18pt) WCAG AA ✓ Pass

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, 84.559, 312.220 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

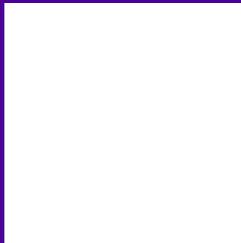
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 23, 84.559, 312.220

Background



This preview shows how black text looks on a background with the CIELCh color 23, 84.559, 312.220.



This preview shows how white text looks on a background with the CIELCh color 23, 84.559, 312.220.

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

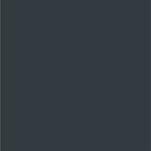
23, 84.559, 312.220

Protanopia

24, 41.297, 284.583

Deuteranopia

24, 28.888, 270.004



Tritanopia
24, 4.401, 247.970

Trichromacy



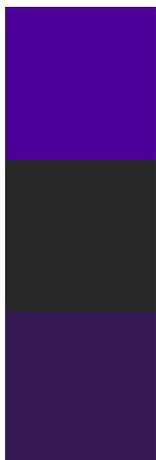
Original Color
23, 84.559, 312.220

Protanomaly
21, 62.086, 300.656

Deuteranomaly
20, 54.162, 298.869

Tritanomaly
21, 39.473, 308.888

Monochromacy



Original Color
23, 84.559, 312.220

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 39.261, 312.203

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 23, 84.559, 312.220 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(77, 0, 152)` looks like.

```
.text, #text, p{  
    color:rgb(77, 0, 152)  
}
```

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(77, 0, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 0, 152) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 84.559, 312.220 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(77, 0, 152) }
```

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

```
.border{ border-color:rgb(77, 0, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 0, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 0, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 0, 152);  
box-shadow:4px 4px 4px 4px rgb(77, 0, 152)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 84.559, 312.220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 0, 152) }
```

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

```
.background{ background-color: rgb(77, 0,  
152) }
```

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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