

Converting Colors

CIELCh(23, 85.171, 311.960)

Have a look what the booklet for
CIELCh(23, 85.171, 311.960)
contains.

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Color

CIELCh(23, 85.149, 311.989)

Conversions

Conversions Part 1

Format	Color
Hex	4C0099
RGB	76, 0, 153
RGB Percent	30%, 0%, 60%
CMY	0.7034, 1.0000, 0.4013
CMYK	0.50, 1.00, 0.00, 0.40
HSL	270°, 100%, 30%
HSV	270°, 100%, 60%
XYZ	8.6689, 3.8003, 30.2695
YIQ	40.1660, -3.8170, 63.6950

Conversions

Conversions Part 2

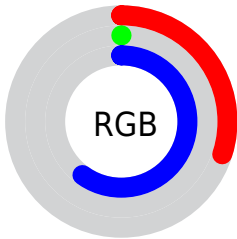
Format	Color
R_{YB}	76, 0, 153
Decimal	4980889
CIE _{Lab}	23.00, 56.96, -63.29
CIE _{LCh}	23, 85.149, 311.989
Yxy	3.8003, 0.2028, 0.0889
Android (android.graphics.Color)	4283170969 (0xFF4C0099)
YUV	40.1660, 55.6272, 31.4264
Hunter-Lab	19.4944, 45.2614, -78.4150

Details

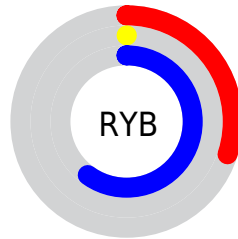
The CIELCh color **23, 85.149, 311.989** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **56, 74.101, 127.649**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 85.102, 311.950**, and **8, 67.140, 306.469** is the 20% darker color. If you saturate the color by 10%, you get **23, 85.034, 311.962**, and if you desaturate by 10%, it is **25, 80.561, 312.327**.

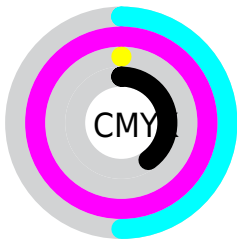
Distribution



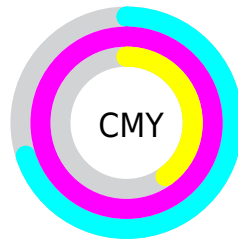
- Red (30%)
- Green (0%)
- Blue (60%)



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



- Cyan (50%)
- Magenta (100%)
- Yellow (0%)
- Black (40%)





- Cyan (70%)
- Magenta (100%)
- Yellow (40%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 85.149, 311.989 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, 85.149, 311.989 by changing the saturation by 10% instead.

 23, 85.149,
311.989


 23, 85.149,
311.989

 100, 85.149,
311.989


 13, 85.149,
311.989


 43, 85.149,
311.989


 3, 85.149, 311.989

 53, 85.149,
311.989

 0, 85.149, 311.989

 63, 85.149,
311.989

 73, 85.149,
311.989

 83, 85.149,
311.989

 93, 85.149,

311.989

■ 23, 85.149,
311.989

■ 23, 85.149,
311.989

■ 23, 85.034,
311.962

■ 25, 80.561,
312.327

■ 28, 74.441,
312.450

■ 31, 66.547,
312.269

■ 35, 57.528,
311.892

■ 40, 47.919,
311.406

■ 44, 38.092,
310.875

■ 49, 28.280,
310.340

■ 54, 18.620,
309.824

■ 58, 9.184, 309.339

Harmonies

Complementary

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



23, 85.149, 311.989



56, 74.101, 127.649

Rectangle

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



23, 85.149, 311.989



23, 85.149, 1.989



23, 85.149, 131.989



23, 85.149, 181.989

Sweetspot

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



23, 85.034, 311.962



63, 35.108, 310.371



34, 46.942, 281.638



30, 23.991, 310.577



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, 85.034, 311.962



31, 103.650, 311.737



36, 78.856, 327.584



30, 5.194, 309.302



21, 79.864, 312.047



1, 5.537, 308.616

Inverse Universe

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



32, 57.907, 0.885



43, 70.310, 1.806



55, 81.574, 135.929



30, 4.197, 344.107



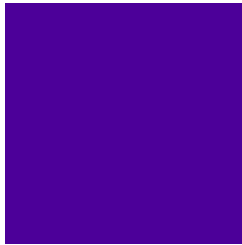
30, 54.470, 0.545



1, 4.462, 343.859

Previews

White Background



This preview shows how the CIE LCh color 23, 85.149, 311.989 looks on a white background.

Color Contrast Check

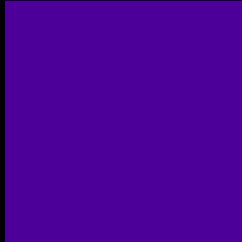
Large Text (above 18pt) WCAG AA ✓ Pass

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, 85.149, 311.989 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

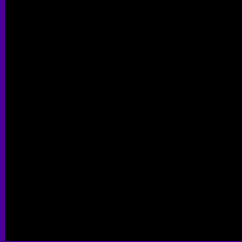
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 85.149, 311.989

Background



This preview shows how black text looks on a background with the CIELCh color 23, 85.149, 311.989.



This preview shows how white text looks on a background with the CIELCh color 23, 85.149, 311.989.

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

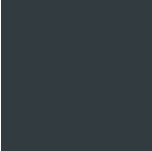
23, 85.149, 311.989

Protanopia

24, 41.297, 284.583

Deuteranopia

24, 28.888, 270.004



Tritanopia
24, 4.979, 240.769

Trichromacy



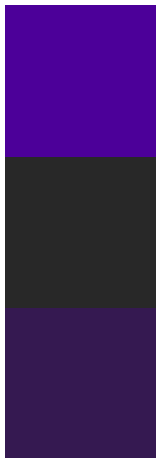
Original Color
23, 85.149, 311.989

Protanomaly
21, 62.669, 300.734

Deuteranomaly
20, 54.769, 298.981

Tritanomaly
21, 39.444, 307.906

Monochromacy



Original Color
23, 85.149, 311.989

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, 85.149, 311.989 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(76, 0, 153)` looks like.

```
.text, #text, p{  
    color:rgb(76, 0, 153)  
}
```

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(76, 0, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 0, 153) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 85.149, 311.989 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(76, 0, 153) }
```

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

```
.border{ border-color:rgb(76, 0, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 0, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 0, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 0, 153);  
box-shadow:4px 4px 4px 4px rgb(76, 0, 153)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 85.149, 311.989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 0, 153) }
```

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

```
.background{ background-color: rgb(76, 0,  
153) }
```

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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