

Converting Colors

CIELCh(23, 80.406, 306.348)

Have a look what the booklet for
CIELCh(23, 80.406, 306.348)
contains.

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Color

CIELCh(23, 80.406, 306.348)

Conversions

Conversions Part 1

Format	Color
Hex	331A9B
RGB	51, 26, 155
RGB Percent	20%, 10%, 61%
CMY	0.8004, 0.8983, 0.3925
CMYK	0.67, 0.83, 0.00, 0.39
HSL	252°, 71%, 35%
HSV	252°, 83%, 61%
XYZ	7.6372, 3.8003, 31.3055
YIQ	48.1810, -26.5090, 45.4190

Conversions

Conversions Part 2

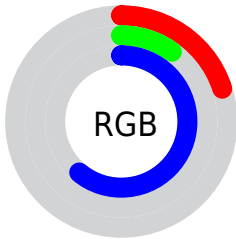
Format	Color
R_{YB}	51, 26, 155
Decimal	3349147
CIE _{Lab}	23.00, 47.66, -64.76
CIE _{LCh}	23, 80.406, 306.348
Yxy	3.8003, 0.1787, 0.0889
Android (android.graphics.Color)	4281539227 (0xFF331A9B)
YUV	48.1810, 52.6618, 2.4723
Hunter-Lab	19.4944, 35.8149, -81.5661

Details

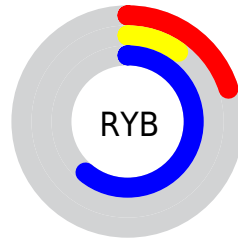
The CIELCh color **23, 80.406, 306.348** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **60, 63.397, 113.521**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 80.517, 306.247**, and **9, 68.283, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 87.152, 306.967**, and if you desaturate by 10%, it is **27, 71.499, 305.319**.

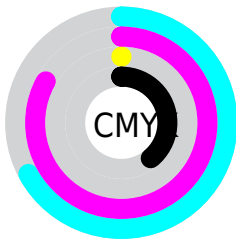
Distribution



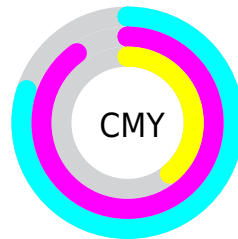
- Red (20%)
- Green (10%)
- Blue (61%)



- Red (20%)
- Yellow (10%)
- Blue (61%)



- Cyan (67%)
- Magenta (83%)
- Yellow (0%)
- Black (39%)





- Cyan (80%)
- Magenta (90%)
- Yellow (39%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 80.406, 306.348 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, 80.406, 306.348 by changing the saturation by 10% instead.

 23, 80.406,
306.348


 23, 80.406,
306.348

 100, 80.406,
306.348

 13, 80.406,
306.348

 43, 80.406,
306.348


 3, 80.406, 306.348

 53, 80.406,
306.348

 0, 80.406, 306.348

 63, 80.406,
306.348

 73, 80.406,
306.348

 83, 80.406,
306.348

 93, 80.406,

306.348

■ 23, 80.406,
306.348

■ 23, 80.406,
306.348

■ 20, 87.152,
306.967

■ 27, 71.499,
305.319

■ 19, 90.791,
307.296

■ 31, 61.505,
304.093

■ 36, 51.170,
302.831

■ 41, 40.899,
301.630

■ 47, 30.884,
300.535

■ 52, 21.200,
299.562

■ 57, 11.865,
298.709

■ 62, 2.874, 297.966

■ 67, 5.788, 117.329

Harmonies

Complementary

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



23, 80.406, 306.348



60, 63.397, 113.521

Rectangle

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



23, 80.406, 306.348



23, 80.406, 356.348



23, 80.406, 126.348



23, 80.406, 176.348

Sweetspot

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



23, 80.407, 306.349



65, 28.331, 299.767



51, 28.675, 226.341



32, 19.603, 300.081



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



23, 80.407, 306.349



26, 110.508, 307.167



31, 76.043, 317.663



30, 4.966, 298.395



16, 84.353, 307.356



0, 5.283, 297.622

Inverse Universe

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



37, 65.639, 336.056



46, 83.183, 337.840



57, 72.394, 131.900



30, 5.193, 330.834



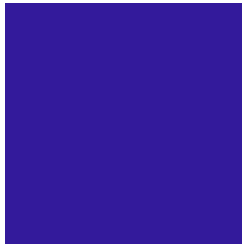
31, 63.929, 337.518



1, 5.524, 330.777

Previews

White Background



This preview shows how the CIE LCh color 23, 80.406, 306.348 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, 80.406, 306.348 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

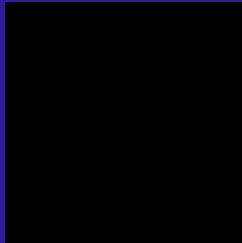
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 80.406, 306.348

Background



This preview shows how black text looks on a background with the CIELCh color 23, 80.406, 306.348.



This preview shows how white text looks on a background with the CIELCh color 23, 80.406, 306.348.

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, 80.406, 306.348

Protanopia

23, 39.601, 284.044

Deuteranopia

23, 27.761, 269.692



Tritanopia
23, 17.697, 205.361

Trichromacy



Original Color
23, 80.406, 306.348

Protanomaly
22, 55.587, 296.306

Deuteranomaly
21, 47.406, 293.213

Tritanomaly
21, 33.339, 284.685

Monochromacy



Original Color
23, 80.406, 306.348

Achromatopsia
20, 0.004, 296.813

Achromatomaly
19, 32.176, 302.459

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 80.406, 306.348 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(51, 26, 155)` looks like.

```
.text, #text, p{  
    color:rgb(51, 26, 155)  
}
```

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(51, 26, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 26, 155) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 80.406, 306.348 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(51, 26, 155) }
```

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

```
.border{ border-color:rgb(51, 26, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 26, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 26, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 26, 155);  
box-shadow:4px 4px 4px 4px rgb(51, 26,  
155) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 80.406, 306.348 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 26, 155) }
```

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

```
.background{ background-color: rgb(51, 26,  
155) }
```

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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