

Converting Colors

CIELCh(23, 88.636, 303.268)

Have a look what the booklet for
CIELCh(23, 88.636, 303.268)
contains.

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Color

CIELCh(23, 88.531, 303.240)

Conversions

Conversions Part 1

Format	Color
Hex	021DAA
RGB	2, 29, 170
RGB Percent	1%, 11%, 67%
CMY	0.9910, 0.8861, 0.3331
CMYK	0.99, 0.83, 0.00, 0.33
HSL	230°, 97%, 34%
HSV	230°, 99%, 67%
XYZ	7.7302, 3.8003, 38.3864
YIQ	37.0010, -61.3530, 38.1270

Conversions

Conversions Part 2

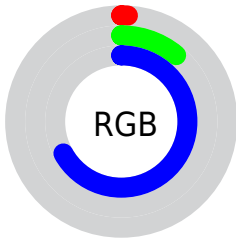
Format	Color
R_{YB}	2, 25, 170
Decimal	138666
CIE Lab	23.00, 48.53, -74.05
CIE LCh	23, 88.531, 303.240
Yxy	3.8003, 0.1549, 0.0761
Android (android.graphics.Color)	4278328746 (0xFF021DAA)
YUV	37.0010, 65.5685, -30.6959
Hunter-Lab	19.4944, 36.6666, -103.1018

Details

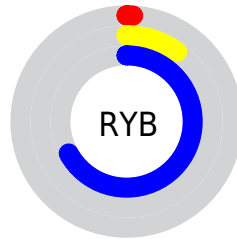
The CIELCh color **23, 88.531, 303.240** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **60, 64.113, 91.537**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 88.842, 303.344**, and **11, 74.799, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **23, 89.528, 303.499**, and if you desaturate by 10%, it is **26, 80.157, 300.870**.

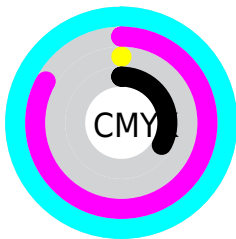
Distribution



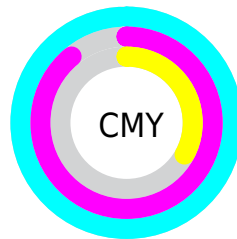
- Red (1%)
- Green (11%)
- Blue (67%)



- Red (1%)
- Yellow (10%)
- Blue (67%)



- Cyan (99%)
- Magenta (83%)
- Yellow (0%)
- Black (33%)





- Cyan (99%)
- Magenta (89%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 88.531, 303.240 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, 88.531, 303.240 by changing the saturation by 10% instead.

 23, 88.531,
303.240

 23, 88.531,
303.240

 100, 88.531,
303.240

 13, 88.531,
303.240


 43, 88.531,
303.240


 3, 88.531, 303.240

 53, 88.531,
303.240

 0, 88.531, 303.240

 63, 88.531,
303.240

 73, 88.531,
303.240

 83, 88.531,
303.240

 93, 88.531,

303.240

■ 23, 88.531,
303.240

■ 23, 88.531,
303.240

■ 23, 89.528,
303.499

■ 26, 80.157,
300.870

■ 30, 70.633,
298.139

■ 35, 60.766,
295.366

■ 39, 51.013,
292.749

■ 44, 41.553,
290.392

■ 50, 32.431,
288.329

■ 55, 23.634,
286.549

■ 60, 15.138,
285.025

■ 65, 6.918, 283.727

Harmonies

Complementary

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



23, 88.531, 303.240



60, 64.113, 91.537

Rectangle

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



23, 88.531, 303.240



23, 88.531, 353.240



23, 88.531, 123.240



23, 88.531, 173.240

Sweetspot

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



23, 88.533, 303.241



69, 30.812, 286.864



62, 43.738, 174.679



34, 21.338, 287.581



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



23, 88.533, 303.241



31, 110.652, 303.895



23, 94.526, 308.841



33, 4.488, 283.802



19, 80.077, 303.236



1, 8.284, 283.925

Inverse Universe

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



35, 69.515, 31.398



46, 86.500, 32.981



64, 75.807, 121.242



33, 3.801, 7.141



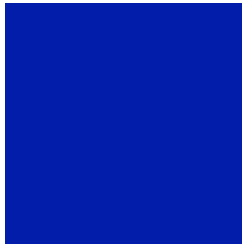
30, 62.984, 31.335



1, 6.719, 8.143

Previews

White Background



This preview shows how the CIE LCh color 23, 88.531, 303.240 looks on a white background.

Color Contrast Check

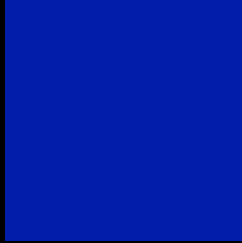
Large Text (above 18pt) WCAG AA ✓ Pass

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, 88.531, 303.240 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

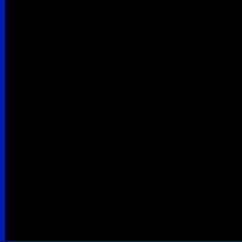
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 88.531, 303.240

Background



This preview shows how black text looks on a background with the CIELCh color 23, 88.531, 303.240.



This preview shows how white text looks on a background with the CIELCh color 23, 88.531, 303.240.

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, 88.531, 303.240

Protanopia

23, 39.601, 284.044

Deuteranopia

23, 27.232, 268.232

Trichromacy



Original Color
23, 88.531, 303.240

Protanomaly
22, 58.729, 295.521

Deuteranomaly
22, 50.633, 292.271

Monochromacy



Original Color
23, 88.531, 303.240

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 35.616, 294.628

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 88.531, 303.240 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(2, 29, 170)` looks like.

```
.text, #text, p{  
    color:rgb(2, 29, 170)  
}
```

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(2, 29, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 29, 170) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 88.531, 303.240 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(2, 29, 170) }
```

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

```
.border{ border-color:rgb(2, 29, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(2, 29, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 29, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 29, 170);  
box-shadow:4px 4px 4px 4px rgb(2, 29, 170)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 88.531, 303.240 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 29, 170) }
```

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

```
.background{ background-color: rgb(2, 29,  
170) }
```

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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