

Converting Colors

CIELCh(20, 91.254, 300.258)

Have a look what the booklet for
CIELCh(20, 91.254, 300.258)
contains.

CIELCh(23, 89.070, 303.356)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(23, 89.070, 303.356)

Conversions

Conversions Part 1

Format	Color
Hex	031DAB
RGB	3, 29, 171
RGB Percent	1%, 11%, 67%
CMY	0.9895, 0.8881, 0.3308
CMYK	0.98, 0.83, 0.00, 0.33
HSL	231°, 97%, 34%
HSV	231°, 98%, 67%
XYZ	7.7781, 3.8003, 38.6739
YIQ	37.4140, -61.0780, 38.6500

Conversions

Conversions Part 2

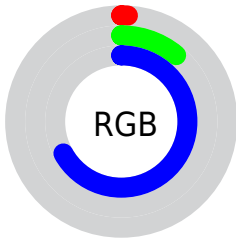
Format	Color
R_{YB}	3, 26, 171
Decimal	204203
CIE _{Lab}	23.00, 48.97, -74.40
CIE _{LCh}	23, 89.070, 303.356
Yxy	3.8003, 0.1548, 0.0756
Android (android.graphics.Color)	4278394283 (0xFF031DAB)
YUV	37.4140, 65.8579, -30.1811
Hunter-Lab	19.4944, 37.1048, -103.9761

Details

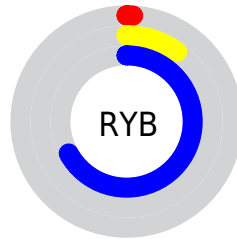
The CIELCh color **23, 89.070, 303.356** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **61, 64.426, 92.003**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 89.370, 303.353**, and **11, 75.259, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **23, 90.224, 303.652**, and if you desaturate by 10%, it is **26, 80.687, 301.014**.

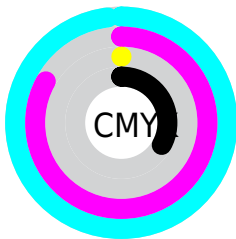
Distribution



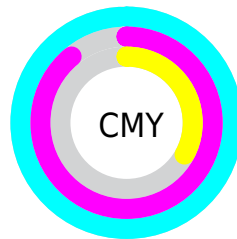
- Red (1%)
- Green (11%)
- Blue (67%)



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



- Cyan (98%)
- Magenta (83%)
- Yellow (0%)
- Black (33%)



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

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 89.070, 303.356 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, 89.070, 303.356 by changing the saturation by 10% instead.

■ 23, 89.070,
303.356

■ 23, 89.070,
303.356

■ 100, 89.070,
303.356

■ 13, 89.070,
303.356

■ 43, 89.070,
303.356

■ 3, 89.070, 303.356

■ 53, 89.070,
303.356

■ 0, 89.070, 303.356

■ 63, 89.070,
303.356

■ 73, 89.070,
303.356

■ 83, 89.070,
303.356

■ 93, 89.070,

303.356

■ 23, 89.070,
303.356

■ 23, 89.070,
303.356

■ 23, 90.224,
303.652

■ 26, 80.687,
301.014

■ 30, 71.100,
298.309

■ 35, 61.146,
295.558

■ 40, 51.299,
292.959

■ 45, 41.748,
290.617

■ 50, 32.538,
288.567

■ 55, 23.659,
286.799

■ 60, 15.088,
285.286

■ 65, 6.798, 283.998

Harmonies

Complementary

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



23, 89.070, 303.356



61, 64.426, 92.003

Rectangle

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



23, 89.070, 303.356



23, 89.070, 353.356



23, 89.070, 123.356



23, 89.070, 173.356

Sweetspot

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



23, 89.072, 303.357



69, 31.013, 287.148



62, 43.817, 174.710



34, 21.479, 287.863



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, 89.072, 303.357



30, 111.176, 304.032



23, 94.656, 308.840



33, 4.515, 284.098



19, 80.493, 303.389



1, 8.326, 284.173

Inverse Universe

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



36, 69.834, 31.689



46, 86.819, 33.335



64, 75.938, 121.227



33, 3.795, 7.570



30, 63.212, 31.709



1, 6.710, 8.521

Previews

White Background



This preview shows how the CIE LCh color 23, 89.070, 303.356 looks on a white background.

Color Contrast Check

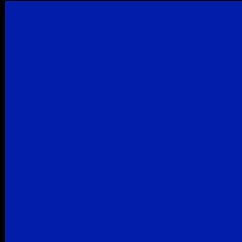
Large Text (above 18pt) WCAG AA ✓ Pass

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, 89.070, 303.356 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

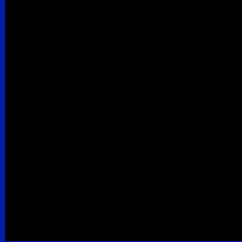
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 89.070, 303.356

Background



This preview shows how black text looks on a background with the CIELCh color 23, 89.070, 303.356.



This preview shows how white text looks on a background with the CIELCh color 23, 89.070, 303.356.

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, 89.014, 303.303

Protanopia

23, 39.601, 284.044

Deuteranopia

23, 27.232, 268.232



Tritanopia
23, 17.795, 203.070

Trichromacy



Original Color
23, 89.014, 303.303

Protanomaly
22, 58.729, 295.521

Deuteranomaly
22, 50.633, 292.271

Tritanomaly
21, 36.149, 282.943

Monochromacy



Original Color
23, 89.014, 303.303

Achromatopsia
15, 0.003, 296.813

Achromatomaly
16, 36.254, 295.196

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 89.070, 303.356 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(3, 29, 171)` looks like.

```
.text, #text, p{  
    color:rgb(3, 29, 171)  
}
```

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(3, 29, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 29, 171) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 89.070, 303.356 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(3, 29, 171) }
```

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

```
.border{ border-color:rgb(3, 29, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 29, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 29, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(3, 29, 171);  
box-shadow:4px 4px 4px 4px rgb(3, 29, 171)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 89.070, 303.356 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 29, 171) }
```

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

```
.background{ background-color: rgb(3, 29,  
171) }
```

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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