

Converting Colors

CIELCh(23, 90.103, 303.587)

Have a look what the booklet for
CIELCh(23, 90.103, 303.587)
contains.

CIELCh(23, 89.989, 303.526)	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>	26

Color

CIELCh(23, 89.989, 303.526)

Conversions

Conversions Part 1

Format	Color
Hex	031CAC
RGB	3, 28, 172
RGB Percent	1%, 11%, 67%
CMY	0.9895, 0.8913, 0.3268
CMYK	0.98, 0.84, 0.00, 0.33
HSL	231°, 97%, 34%
HSV	231°, 98%, 67%
XYZ	7.8566, 3.8003, 39.1844
YIQ	36.9410, -61.1240, 39.4840

Conversions

Conversions Part 2

Format	Color
R_{YB}	3, 25, 172
Decimal	203948
CIE _{Lab}	23.00, 49.70, -75.02
CIE _{LCh}	23, 89.989, 303.526
Yxy	3.8003, 0.1545, 0.0747
Android (android.graphics.Color)	4278394028 (0xFF031CAC)
YUV	36.9410, 66.5841, -29.7663
Hunter-Lab	19.4944, 37.8239, -105.5287

Details

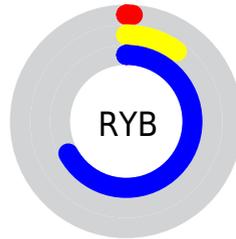
The CIELCh color **23, 89.989, 303.526** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **61, 64.927, 92.460**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 89.867, 303.490**, and **11, 75.718, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **23, 91.123, 303.812**, and if you desaturate by 10%, it is **26, 81.627, 301.231**.

Distribution



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



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



- Cyan (98%)
- Magenta (84%)
- Yellow (0%)
- Black (33%)



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

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 89.989, 303.526 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, 89.989, 303.526 by changing the saturation by 10% instead.

 23, 89.989,
303.526

 23, 89.989,
303.526

 100, 89.989,
303.526

 13, 89.989,
303.526

 43, 89.989,
303.526

 3, 89.989, 303.526

 53, 89.989,
303.526

 0, 89.989, 303.526

 63, 89.989,
303.526

 73, 89.989,
303.526

 83, 89.989,
303.526

 93, 89.989,

303.526

■ 23, 89.989,
303.526

■ 23, 89.989,
303.526

■ 23, 91.123,
303.812

■ 26, 81.627,
301.231

■ 30, 71.976,
298.558

■ 35, 61.914,
295.826

■ 40, 51.943,
293.240

■ 45, 42.267,
290.907

■ 50, 32.938,
288.863

■ 55, 23.947,
287.101

■ 61, 15.271,
285.592

■ 66, 6.884, 284.309

Harmonies

Complementary

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



23, 89.989, 303.526



61, 64.927, 92.460

Rectangle

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



23, 89.989, 303.526



23, 89.989, 353.526



23, 89.989, 123.526



23, 89.989, 173.526

Sweetspot

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



23, 89.991, 303.527



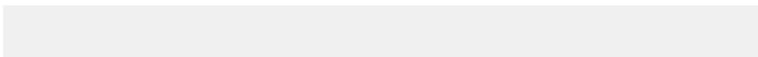
70, 31.518, 287.448



63, 43.139, 176.544



34, 21.629, 288.156



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



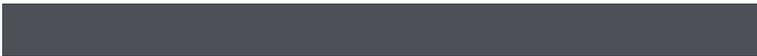
23, 89.991, 303.527



31, 112.732, 304.185



24, 94.804, 309.095



34, 4.658, 284.411



19, 82.033, 303.578



1, 10.008, 284.771

Inverse Universe

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



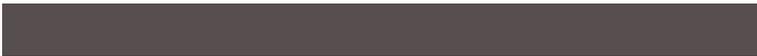
36, 70.438, 32.107



47, 87.940, 33.735



64, 76.685, 121.984



34, 3.885, 8.027



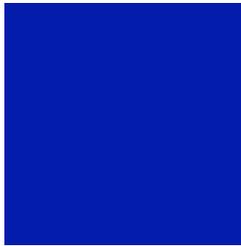
31, 64.303, 32.180



2, 7.939, 9.457

Previews

White Background



This preview shows how the CIE LCh color 23, 89.989, 303.526 looks on a white background.

Color Contrast Check

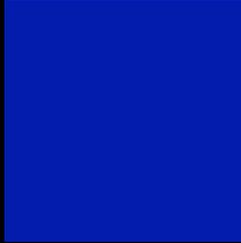
Large Text (above 18pt) WCAG AA ✓ Pass

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, 89.989, 303.526 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

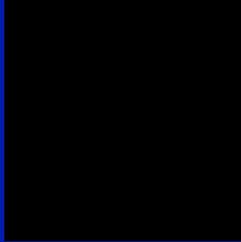
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

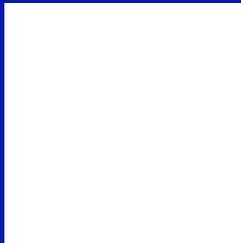
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 23, 89.989, 303.526

Background



This preview shows how black text looks on a background with the CIELCh color 23, 89.989, 303.526.



This preview shows how white text looks on a background with the CIELCh color 23, 89.989, 303.526.

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, 90.009, 303.502

Protanopia

23, 39.601, 284.044

Trichromacy



Original Color
23, 90.009, 303.502

Protanomaly
22, 59.433, 295.949

Monochromacy



Original Color
23, 90.009, 303.502

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, 89.989, 303.526 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, 28, 172)` looks like.

```
.text, #text, p{  
    color:rgb(3, 28, 172)  
}
```

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, 28, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 28, 172) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 89.989, 303.526 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, 28, 172) }
```

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

```
.border{ border-color:rgb(3, 28, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 28, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 28, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(3, 28, 172);  
box-shadow:4px 4px 4px 4px rgb(3, 28, 172)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 89.989, 303.526 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 28, 172) }
```

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

```
.background{ background-color: rgb(3, 28,  
172) }
```

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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