

Converting Colors

CIELCh(23, 88.121, 98.893)

Have a look what the booklet for
CIELCh(23, 88.121, 98.893) contains.

CIELCh(23, 33.686, 111.453)	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, 33.686, 111.453)

Conversions

Conversions Part 1

Format	Color
Hex	323B00
RGB	50, 59, 0
RGB Percent	20%, 23%, 0%
CMY	0.8041, 0.7688, 1.0000
CMYK	0.15, 0.00, 1.00, 0.77
HSL	69°, 100%, 12%
HSV	69°, 100%, 23%
XYZ	2.8747, 3.8003, 0.5805
YIQ	49.5830, 13.5750, -20.2570

Conversions

Conversions Part 2

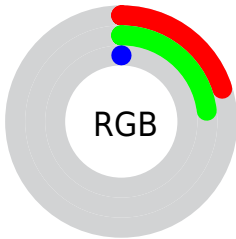
Format	Color
RYB	0, 59, 9
Decimal	3291904
CIELab	23.00, -12.32, 31.35
CIELCh	23, 33.686, 111.453
Yxy	3.8003, 0.3962, 0.5238
Android (android.graphics.Color)	4281481984 (0xFF323B00)
YUV	49.5830, -24.4444, 0.3657
Hunter-Lab	19.4944, -7.7932, 11.8806

Details

The CIELCh color **23, 33.686, 111.453** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **3, 40.619, 303.324**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 33.545, 111.775**, and **4, 9.813, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **23, 33.666, 111.462**, and if you desaturate by 10%, it is **23, 31.259, 111.521**.

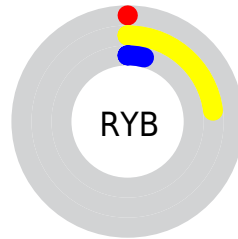
Distribution



Red (20%)

Green (23%)

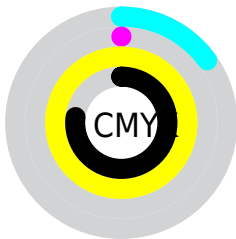
Blue (0%)



Red (0%)

Yellow (23%)

Blue (4%)

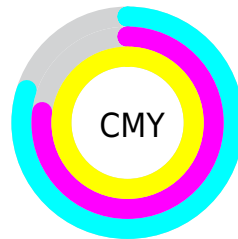


Cyan (15%)

Magenta (0%)

Yellow (100%)

Black (77%)



Cyan (80%)

Magenta (77%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 33.686, 111.453 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, 33.686, 111.453 by changing the saturation by 10% instead.

■ 23, 33.686,
111.453

■ 23, 33.686,
111.453

■ 100, 33.686,
111.453

■ 13, 33.686,
111.453

■ 43, 33.686,
111.453

■ 3, 33.686, 111.453

■ 53, 33.686,
111.453

■ 0, 33.686, 111.453

■ 63, 33.686,
111.453

■ 73, 33.686,
111.453

■ 83, 33.686,
111.453

■ 93, 33.686,

111.453

■ 23, 33.686,
111.453

■ 23, 33.686,
111.453

■ 23, 33.666,
111.462

■ 23, 31.259,
111.521

■ 23, 28.823,
111.626

■ 23, 25.904,
111.967

■ 24, 22.628,
112.440

■ 24, 19.109,
112.996

■ 24, 15.427,
113.604

■ 24, 11.641,
114.240

■ 24, 7.790, 114.887

■ 25, 3.902, 115.530

Harmonies

Complementary

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



23, 33.686, 111.453



3, 40.619, 303.324

Rectangle

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



23, 33.686, 111.453



23, 33.686, 161.453



23, 33.686, 291.453



23, 33.686, 341.453

Sweetspot

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



23, 33.666, 111.462



32, 14.458, 114.152



10, 28.358, 33.144



15, 9.676, 114.073



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



23, 33.666, 111.462



30, 41.084, 111.247



21, 38.264, 131.223



11, 2.235, 115.626



37, 47.481, 111.490



83, 88.647, 112.151

Inverse Universe

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



3, 40.619, 303.324



5, 53.622, 306.695



7, 41.826, 317.033



10, 2.274, 296.723



8, 63.634, 307.312



28, 119.390, 306.841

Previews

White Background



This preview shows how the CIELCh color 23, 33.686, 111.453 looks on a white background.

Color Contrast Check

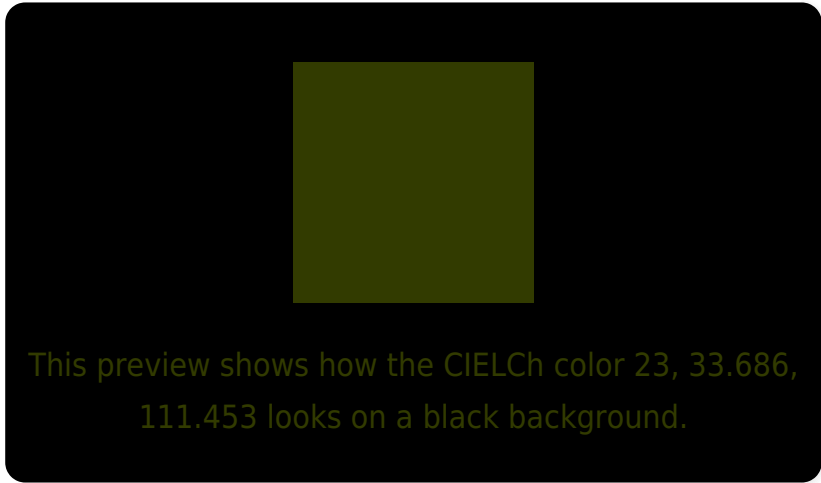
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

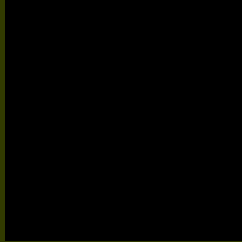
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 33.686, 111.453

Background



This preview shows how black text looks on a background with the CIELCh color 23, 33.686, 111.453.



This preview shows how white text looks on a background with the CIELCh color 23, 33.686, 111.453.

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, 33.686, 111.453

Protanopia

23, 31.743, 96.284

Deuteranopia

23, 27.829, 84.300



Tritanopia
23, 2.669, 290.771

Trichromacy



Original Color
23, 33.686, 111.453

Protanomaly
23, 31.936, 101.320

Deuteranomaly
23, 29.322, 96.138

Tritanomaly
23, 11.951, 114.716

Monochromacy



Original Color
23, 33.686, 111.453

Achromatopsia
21, 0.004, 296.813

Achromatomaly
21, 13.973, 113.256

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 33.686, 111.453 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(50, 59, 0)` looks like.

```
.text, #text, p{  
    color:rgb(50, 59, 0)  
}
```

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(50, 59, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 59, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 33.686, 111.453 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(50, 59, 0) }
```

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

```
.border{ border-color:rgb(50, 59, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 59, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 59, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(50, 59, 0); box-shadow:4px  
4px 4px 4px rgb(50, 59, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 33.686, 111.453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 59, 0) }
```

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

```
.background{ background-color: rgb(50, 59,  
0) }
```

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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