

Converting Colors

CIELCh(23, 33.770, 112.337)

Have a look what the booklet for
CIELCh(23, 33.770, 112.337)
contains.

CIELCh(23, 33.770, 112.337)	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, 33.770, 112.337)

Conversions

Conversions Part 1

Format	Color
Hex	313B00
RGB	49, 59, 0
RGB Percent	19%, 23%, 0%
CMY	0.8073, 0.7680, 0.9993
CMYK	0.17, 0.00, 1.00, 0.77
HSL	70°, 99%, 12%
HSV	70°, 100%, 23%
XYZ	2.8463, 3.8003, 0.5886
YIQ	49.2840, 12.9790, -20.4690

Conversions

Conversions Part 2

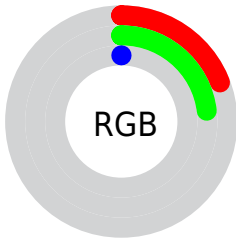
Format	Color
RYB	0, 59, 10
Decimal	3226368
CIELab	23.00, -12.83, 31.24
CIELCh	23, 33.770, 112.337
Yxy	3.8003, 0.3934, 0.5253
Android (android.graphics.Color)	4281416448 (0xFF313B00)
YUV	49.2840, -24.2970, -0.2491
Hunter-Lab	19.4944, -8.0530, 11.8559

Details

The CIELCh color **23, 33.770, 112.337** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **3, 40.744, 303.746**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 33.606, 112.563**, and **4, 9.813, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **23, 33.844, 112.338**, and if you desaturate by 10%, it is **23, 31.346, 112.370**.

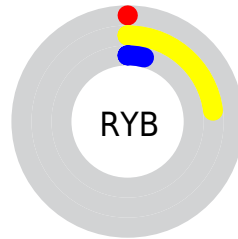
Distribution



Red (19%)

Green (23%)

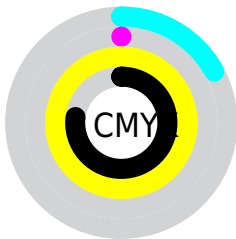
Blue (0%)



Red (0%)

Yellow (23%)

Blue (4%)

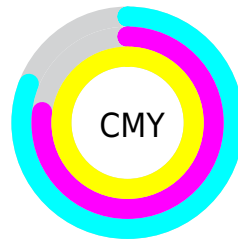


Cyan (17%)

Magenta (0%)

Yellow (100%)

Black (77%)



Cyan (81%)


Magenta (77%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 33.770, 112.337 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, 33.770, 112.337 by changing the saturation by 10% instead.

 23, 33.770,
112.337


 23, 33.770,
112.337

 100, 33.770,
112.337


 13, 33.770,
112.337


 43, 33.770,
112.337


 3, 33.770, 112.337

 53, 33.770,
112.337

 0, 33.770, 112.337

 63, 33.770,
112.337

 73, 33.770,
112.337

 83, 33.770,
112.337

 93, 33.770,

112.337

■ 23, 33.770,
112.337

■ 23, 33.770,
112.337

■ 23, 33.844,
112.338

■ 23, 31.346,
112.370

■ 23, 28.883,
112.449

■ 23, 25.931,
112.771

■ 24, 22.629,
113.225

■ 24, 19.086,
113.764

■ 24, 15.383,
114.355

■ 24, 11.577,
114.974

■ 24, 7.706, 115.602

■ 25, 3.800, 116.227

Harmonies

Complementary

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



23, 33.770, 112.337



3, 40.744, 303.746

Rectangle

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



23, 33.770, 112.337



23, 33.770, 162.337



23, 33.770, 292.337



23, 33.770, 342.337

Sweetspot

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



23, 33.770, 112.339



32, 14.483, 114.870



10, 28.139, 34.109



15, 9.692, 114.794



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, 33.770, 112.339



30, 41.202, 112.138



21, 38.454, 131.620



11, 2.238, 116.302



37, 47.625, 112.404



83, 88.956, 113.129

Inverse Universe

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



3, 40.744, 303.746



6, 53.596, 306.916



7, 41.802, 317.545



10, 2.277, 297.364



8, 63.500, 307.457



29, 119.188, 306.952

Previews

White Background



This preview shows how the CIELCh color 23, 33.770, 112.337 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

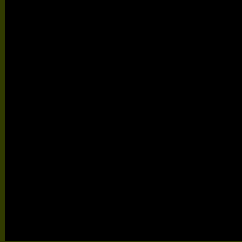
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 33.770, 112.337

Background



This preview shows how black text looks on a background with the CIELCh color 23, 33.770, 112.337.



This preview shows how white text looks on a background with the CIELCh color 23, 33.770, 112.337.

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

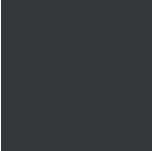
23, 33.770, 112.337

Protanopia

23, 31.743, 96.284

Deuteranopia

23, 27.829, 84.300



Tritanopia
23, 2.698, 281.284

Trichromacy



Original Color
23, 33.770, 112.337

Protanomaly
23, 32.388, 103.258

Deuteranomaly
23, 29.322, 96.138

Tritanomaly
23, 12.729, 118.655

Monochromacy



Original Color
23, 33.770, 112.337

Achromatopsia
20, 0.004, 296.813

Achromatomaly
21, 14.678, 114.824

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 33.770, 112.337 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(49, 59, 0)` looks like.

```
.text, #text, p{  
    color:rgb(49, 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(49, 59, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 59, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 33.770, 112.337 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(49, 59, 0) }
```

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

```
.border{ border-color:rgb(49, 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(49, 59, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 59, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 59, 0); box-shadow:4px  
4px 4px 4px rgb(49, 59, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 33.770, 112.337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 59, 0) }
```

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

```
.background{ background-color: rgb(49, 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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