

Converting Colors

CIELCh(23, 16.890, 121.671)

Have a look what the booklet for
CIELCh(23, 16.890, 121.671)
contains.

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Color

CIELCh(23, 16.902, 122.069)

Conversions

Conversions Part 1

Format	Color
Hex	313A21
RGB	49, 58, 33
RGB Percent	19%, 23%, 13%
CMY	0.8075, 0.7722, 0.8703
CMYK	0.15, 0.00, 0.43, 0.77
HSL	82°, 27%, 18%
HSV	82°, 43%, 23%
XYZ	3.0639, 3.8003, 2.0169
YIQ	52.4590, 2.6610, -9.6830

Conversions

Conversions Part 2

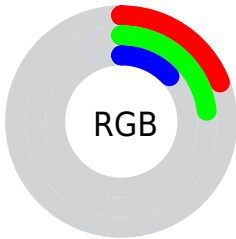
Format	Color
RYB	33, 58, 42
Decimal	3226145
CIELab	23.00, -8.97, 14.32
CIELCh	23, 16.902, 122.069
Yxy	3.8003, 0.3450, 0.4279
Android (android.graphics.Color)	4281416225 (0xFF313A21)
YUV	52.4590, -9.5933, -3.0335
Hunter-Lab	19.4944, -6.0603, 7.5118

Details

The CIELCh color **23, 16.902, 122.069** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **15, 18.130, 306.365**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 16.543, 121.718**, and **3, 8.406, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **23, 20.651, 121.648**, and if you desaturate by 10%, it is **23, 13.046, 122.527**.

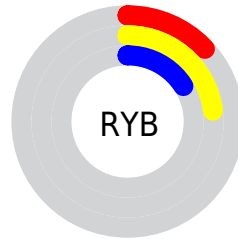
Distribution



Red (19%)

Green (23%)

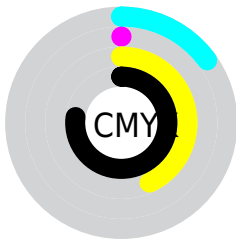
Blue (13%)



Red (13%)

Yellow (23%)

Blue (16%)

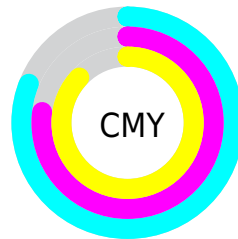


Cyan (15%)

Magenta (0%)

Yellow (43%)

Black (77%)



Cyan (81%)


Magenta (77%)


Yellow (87%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 16.902, 122.069 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, 16.902, 122.069 by changing the saturation by 10% instead.

 23, 16.902,
122.069


 23, 16.902,
122.069

 100, 16.902,
122.069


 13, 16.902,
122.069


 43, 16.902,
122.069


 3, 16.902, 122.069

 53, 16.902,
122.069

 0, 16.902, 122.069

 63, 16.902,
122.069

 73, 16.902,
122.069

 83, 16.902,
122.069

 93, 16.902,

122.069

■ 23, 16.902,
122.069

■ 23, 16.902,
122.069

■ 23, 20.651,
121.648

■ 23, 13.046,
122.527

■ 22, 24.230,
121.291

■ 24, 9.125, 122.994

■ 22, 27.555,
121.045

■ 24, 5.170, 123.459

■ 24, 1.204, 123.927

■ 22, 30.435,
121.062

■ 25, 2.756, 304.321

■ 22, 32.984,
121.300

■ 25, 6.698, 304.734

■ 22, 34.762,
121.448

■ 26, 10.613,
305.117

■ 26, 14.493,
305.474

■ 27, 18.334,
305.805

Harmonies

Complementary

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



23, 16.902, 122.069



15, 18.130, 306.365

Rectangle

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



23, 16.902, 122.069



23, 16.902, 172.069



23, 16.902, 302.069



23, 16.902, 352.069

Sweetspot

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



23, 16.903, 122.071



32, 6.482, 123.432



19, 10.592, 54.815



15, 4.452, 123.390



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, 16.903, 122.071



30, 25.432, 121.589



22, 19.370, 138.108



10, 2.130, 123.679



35, 49.002, 121.572



80, 93.078, 122.826

Inverse Universe

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



15, 18.130, 306.365



18, 27.906, 307.122



16, 19.586, 321.966



9, 2.160, 304.403



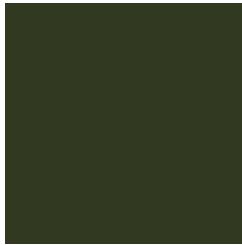
10, 60.381, 309.914



31, 114.778, 309.079

Previews

White Background



This preview shows how the CIELCh color 23, 16.902, 122.069 looks on a white background.

Color Contrast Check

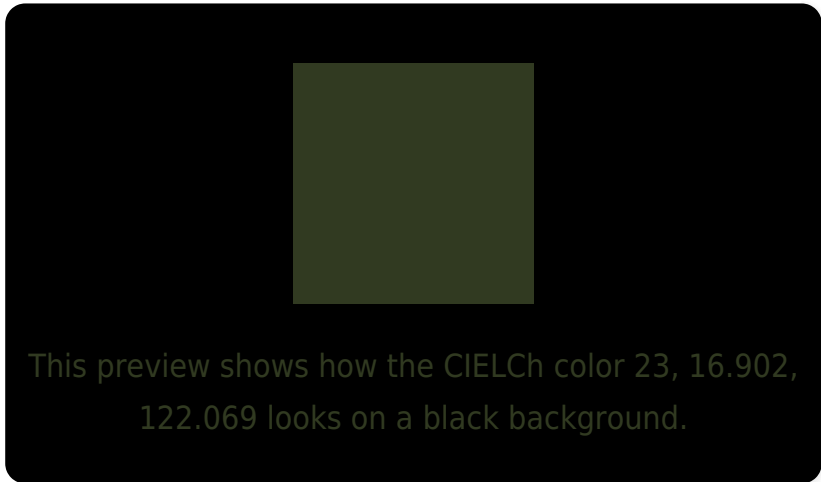
Large Text (above 18pt) WCAG AA ✓ Pass

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

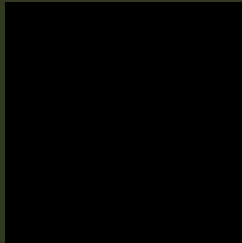
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 16.902, 122.069

Background



This preview shows how black text looks on a background with the CIELCh color 23, 16.902, 122.069.



This preview shows how white text looks on a background with the CIELCh color 23, 16.902, 122.069.

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, 16.902, 122.069

Protanopia

23, 15.322, 96.993

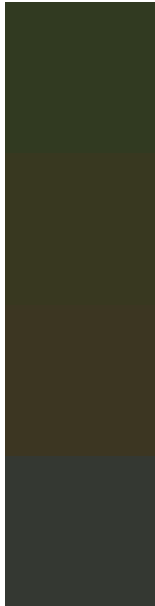
Deuteranopia

23, 14.153, 76.250



Tritanopia
23, 2.797, 272.298

Trichromacy



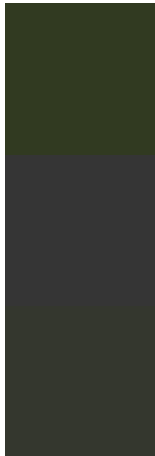
Original Color
23, 16.902, 122.069

Protanomaly
23, 15.678, 106.660

Deuteranomaly
23, 13.580, 93.955

Tritanomaly
23, 4.420, 134.299

Monochromacy



Original Color
23, 16.902, 122.069

Achromatopsia
22, 0.004, 296.813

Achromatomaly
23, 6.163, 122.297

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 16.902, 122.069 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, 58, 33)` looks like.

```
.text, #text, p{  
    color:rgb(49, 58, 33)  
}
```

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, 58, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 58, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 16.902, 122.069 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, 58, 33) }
```

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

```
.border{ border-color:rgb(49, 58, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 58, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 58, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 58, 33);  
box-shadow:4px 4px 4px 4px rgb(49, 58, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 16.902, 122.069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 58, 33) }
```

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

```
.background{ background-color: rgb(49, 58,  
33) }
```

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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