

Converting Colors

CIELCh(23, 19.628, 116.479)

Have a look what the booklet for
CIELCh(23, 19.628, 116.479)
contains.

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Color

CIELCh(23, 19.667, 116.444)

Conversions

Conversions Part 1

Format	Color
Hex	333A1C
RGB	51, 58, 28
RGB Percent	20%, 23%, 11%
CMY	0.8004, 0.7729, 0.8906
CMYK	0.12, 0.00, 0.52, 0.77
HSL	74°, 35%, 17%
HSV	74°, 52%, 23%
XYZ	3.0764, 3.8003, 1.6640
YIQ	52.4870, 5.4580, -10.8140

Conversions

Conversions Part 2

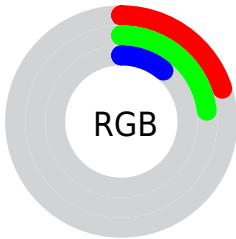
Format	Color
RYB	28, 58, 35
Decimal	3357212
CIELab	23.00, -8.76, 17.61
CIELCh	23, 19.667, 116.444
Yxy	3.8003, 0.3602, 0.4450
Android (android.graphics.Color)	4281547292 (0xFF333A1C)
YUV	52.4870, -12.0721, -1.3041
Hunter-Lab	19.4944, -5.9460, 8.5851

Details

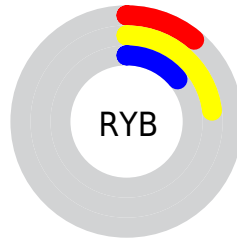
The CIELCh color **23, 19.667, 116.444** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **13, 21.822, 303.074**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 19.782, 116.477**, and **3, 8.406, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **23, 23.151, 115.989**, and if you desaturate by 10%, it is **23, 16.018, 116.963**.

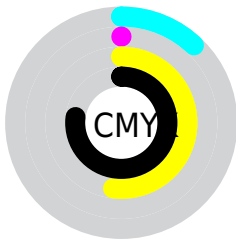
Distribution



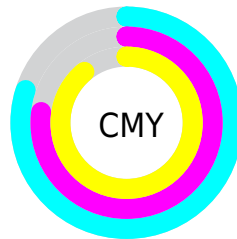
- Red (20%)
- Green (23%)
- Blue (11%)



- Red (11%)
- Yellow (23%)
- Blue (14%)



- Cyan (12%)
- Magenta (0%)
- Yellow (52%)
- Black (77%)





- Cyan (80%)
- Magenta (77%)
- Yellow (89%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 19.667, 116.444 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, 19.667, 116.444 by changing the saturation by 10% instead.

 23, 19.667,
116.444


 23, 19.667,
116.444

 100, 19.667,
116.444


 13, 19.667,
116.444


 43, 19.667,
116.444

 3, 19.667, 116.444

 53, 19.667,
116.444

 0, 19.667, 116.444

 63, 19.667,
116.444

 73, 19.667,
116.444

 83, 19.667,
116.444

 93, 19.667,

116.444

■ 23, 19.667,
116.444

■ 23, 19.667,
116.444

■ 23, 23.151,
115.989

■ 23, 16.018,
116.963

■ 23, 26.386,
115.630

■ 23, 12.260,
117.513

■ 22, 29.213,
115.467

■ 24, 8.436, 118.074

■ 24, 4.574, 118.635

■ 22, 31.631,
115.553

■ 24, 0.696, 119.195

■ 22, 33.618,
115.630

■ 25, 3.184, 299.707

■ 25, 7.055, 300.217

■ 25, 10.907,
300.700

■ 26, 14.735,
301.157

Harmonies

Complementary

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



23, 19.667, 116.444



13, 21.822, 303.074

Rectangle

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



23, 19.667, 116.444



23, 19.667, 166.444



23, 19.667, 296.444



23, 19.667, 346.444

Sweetspot

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



23, 19.668, 116.446



32, 7.820, 118.356



16, 13.606, 42.686



15, 5.182, 118.329



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, 19.668, 116.446



31, 29.143, 115.858



22, 22.297, 134.455



10, 2.090, 118.830



36, 47.354, 115.677



81, 89.556, 116.646

Inverse Universe

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



13, 21.822, 303.074



15, 33.491, 304.354



14, 22.921, 318.657



9, 2.124, 299.742



8, 61.720, 308.131



29, 117.232, 307.481

Previews

White Background



This preview shows how the CIELCh color 23, 19.667, 116.444 looks on a white background.

Color Contrast Check

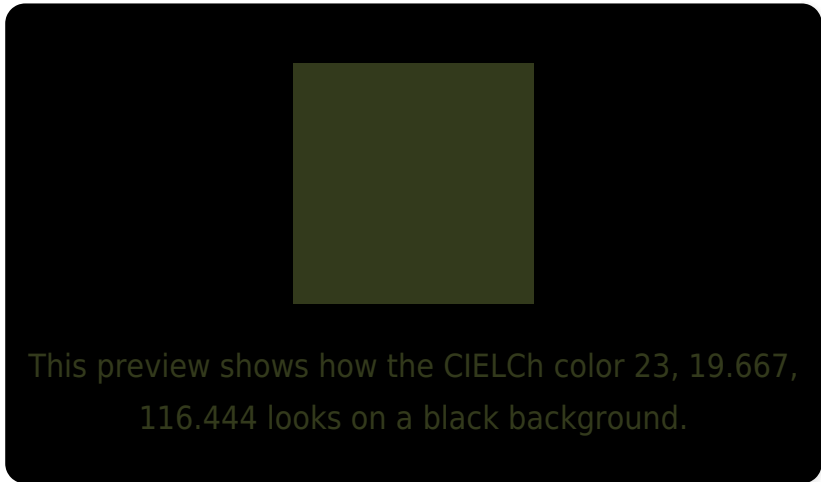
Large Text (above 18pt) WCAG AA ✓ Pass

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

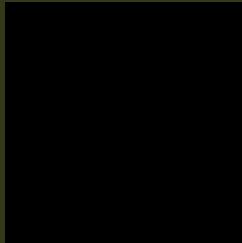
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 19.667, 116.444

Background



This preview shows how black text looks on a background with the CIELCh color 23, 19.667, 116.444.

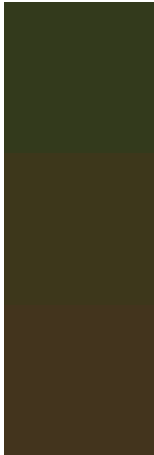


This preview shows how white text looks on a background with the CIELCh color 23, 19.667, 116.444.

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, 19.667, 116.444

Protanopia

23, 18.511, 96.166

Deuteranopia

23, 17.336, 79.174



Tritanopia
23, 2.669, 290.771

Trichromacy



Original Color
23, 19.667, 116.444

Protanomaly
23, 18.786, 104.360

Deuteranomaly
23, 16.831, 93.752

Tritanomaly
23, 5.394, 119.156

Monochromacy



Original Color
23, 19.667, 116.444

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 7.391, 116.080

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 19.667, 116.444 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(51, 58, 28)` looks like.

```
.text, #text, p{  
    color:rgb(51, 58, 28)  
}
```

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(51, 58, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 58, 28) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 19.667, 116.444 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(51, 58, 28) }
```

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

```
.border{ border-color:rgb(51, 58, 28) }
```

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

Here you see how a box with a 4 pixel rgb(51, 58, 28) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 58, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 58, 28);  
box-shadow:4px 4px 4px 4px rgb(51, 58, 28)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 19.667, 116.444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 58, 28) }
```

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

```
.background{ background-color: rgb(51, 58,  
28) }
```

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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