

Converting Colors

CIELCh(19, 8.399, 100.168)

Have a look what the booklet for
CIELCh(19, 8.399, 100.168) contains.

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Color

CIELCh(19, 8.312, 97.455)

Conversions

Conversions Part 1

Format	Color
Hex	312E22
RGB	49, 46, 34
RGB Percent	19%, 18%, 13%
CMY	0.8070, 0.8187, 0.8658
CMYK	0.00, 0.06, 0.30, 0.81
HSL	48°, 18%, 16%
HSV	48°, 30%, 19%
XYZ	2.5552, 2.7468, 1.9251
YIQ	45.5290, 5.6400, -3.0960

Conversions

Conversions Part 2

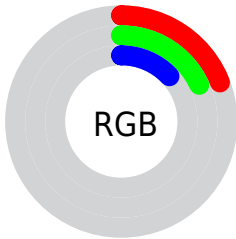
Format	Color
R_{YB}	38, 49, 34
Decimal	3223074
CIE Lab	19.00, -1.08, 8.24
CIE LCh	19, 8.312, 97.455
Yxy	2.7468, 0.3536, 0.3801
Android (android.graphics.Color)	4281413154 (0xFF312E22)
YUV	45.5290, -5.6838, 3.0441
Hunter-Lab	16.5735, -1.4839, 4.7145

Details

The CIELCh color **19, 8.312, 97.455** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **15, 8.553, 283.844**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 8.624, 99.907**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 11.049, 96.458**, and if you desaturate by 10%, it is **19, 5.573, 98.443**.

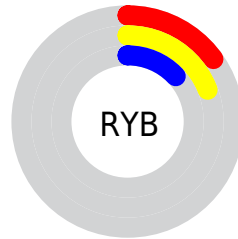
Distribution



Red (19%)

Green (18%)

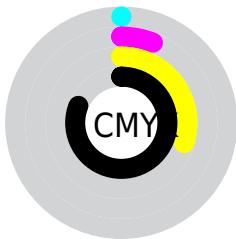
Blue (13%)



Red (15%)

Yellow (19%)

Blue (13%)

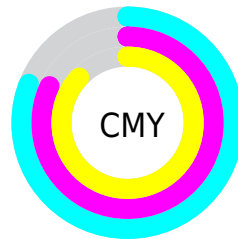


Cyan (0%)

Magenta (6%)

Yellow (30%)

Black (81%)



Cyan (81%)


Magenta (82%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 8.312, 97.455 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 19, 8.312, 97.455 by changing the saturation by 10% instead.

 19, 8.312, 97.455  19, 8.312, 97.455

 100, 8.312, 97.455  9, 8.312, 97.455

 39, 8.312, 97.455  0, 8.312, 97.455

 49, 8.312, 97.455

 59, 8.312, 97.455

 69, 8.312, 97.455

 79, 8.312, 97.455

 89, 8.312, 97.455

 99, 8.312, 97.455

 19, 8.312, 97.455  19, 8.312, 97.455

■ 19, 11.049, 96.458

■ 19, 5.573, 98.443

■ 18, 13.764, 95.440

■ 20, 2.844, 99.396

■ 18, 16.426, 94.412

■ 20, 0.131, 99.902

■ 17, 18.787, 93.409

■ 21, 2.561, 281.287

■ 17, 20.550, 92.418

■ 21, 5.230, 282.153

■ 17, 22.074, 91.496

■ 22, 7.876, 282.995

■ 16, 23.523, 90.742

■ 22, 10.497,
283.806

■ 23, 13.094,
284.582

■ 24, 15.668,
285.326

Harmonies

Complementary

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



19, 8.312, 97.455



15, 8.553, 283.844

Rectangle

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



19, 8.312, 97.455



19, 8.312, 147.455



19, 8.312, 277.455



19, 8.312, 327.455

Sweetspot

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



19, 8.312, 97.461



26, 3.028, 99.491



15, 7.843, 4.690



12, 2.127, 99.449



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



19, 8.312, 97.461



25, 12.543, 96.612



20, 10.344, 119.668



9, 1.539, 99.609



31, 39.985, 89.079



73, 75.514, 87.686

Inverse Universe

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



15, 8.553, 283.844



19, 13.034, 285.064



14, 10.883, 302.898



8, 1.555, 281.237



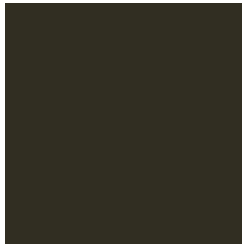
10, 50.868, 300.350



31, 104.451, 302.708

Previews

White Background



This preview shows how the CIELCh color 19, 8.312, 97.455 looks on a white background.

Color Contrast Check

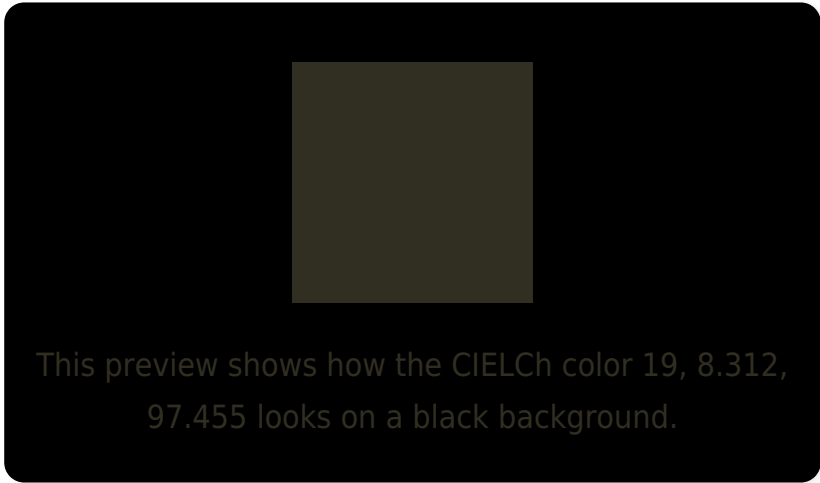
Large Text (above 18pt) WCAG AA ✓ Pass

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

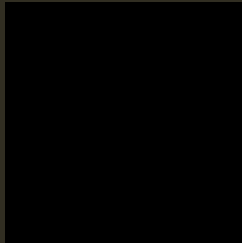
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 19, 8.312, 97.455

Background



This preview shows how black text looks on a background with the CIELCh color 19, 8.312, 97.455.

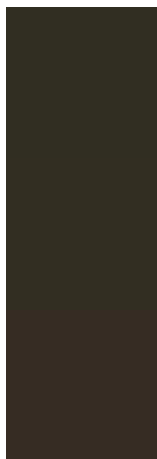


This preview shows how white text looks on a background with the CIELCh color 19, 8.312, 97.455.

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


19, 8.312, 97.455

Protanopia

19, 8.426, 93.998

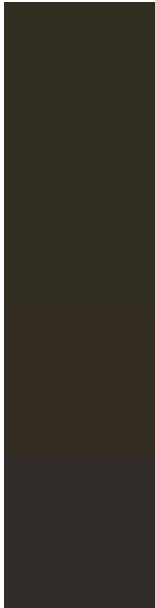
Deuteranopia

19, 8.097, 68.945



Tritanopia
19, 4.307, 340.861

Trichromacy



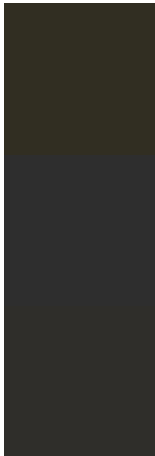
Original Color
19, 8.312, 97.455

Protanomaly
19, 8.426, 93.998

Deuteranomaly
19, 7.745, 80.751

Tritanomaly
19, 2.790, 49.044

Monochromacy



Original Color
19, 8.312, 97.455

Achromatopsia
19, 0.004, 296.813

Achromatomaly
19, 2.771, 99.396

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 8.312, 97.455 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, 46, 34)` looks like.

```
.text, #text, p{  
    color:rgb(49, 46, 34)  
}
```

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, 46, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 46, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 8.312, 97.455 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, 46, 34) }
```

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

```
.border{ border-color:rgb(49, 46, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 46, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 46, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 46, 34);  
box-shadow:4px 4px 4px 4px rgb(49, 46, 34)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 8.312, 97.455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 46, 34) }
```

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

```
.background{ background-color: rgb(49, 46,  
34) }
```

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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