

Converting Colors

CIE LCh(19, 2.011, 46.924)

Have a look what the booklet for
CIELCh(19, 2.011, 46.924) contains.

CIELCh(19, 2.043, 39.216)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(19, 2.043, 39.216)

Conversions

Conversions Part 1

Format	Color
Hex	312D2C
RGB	49, 45, 44
RGB Percent	19%, 18%, 17%
CMY	0.8066, 0.8223, 0.8262
CMYK	0.00, 0.08, 0.10, 0.81
HSL	12°, 5%, 18%
HSV	12°, 10%, 19%
XYZ	2.6938, 2.7468, 2.8028
YIQ	46.0820, 2.7050, 0.5370

Conversions

Conversions Part 2

Format	Color
R_{YB}	49, 45, 44
Decimal	3222828
CIE Lab	19.00, 1.58, 1.29
CIE LCh	19, 2.043, 39.216
Yxy	2.7468, 0.3268, 0.3332
Android (android.graphics.Color)	4281412908 (0xFF312D2C)
YUV	46.0820, -1.0264, 2.5591
Hunter-Lab	16.5735, 0.0092, 1.5746

Details

The CIELCh color **19, 2.043, 39.216** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 1.939, 219.841**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 2.093, 55.099**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 4.197, 39.194**, and if you desaturate by 10%, it is **20, 0.028, 32.156**.

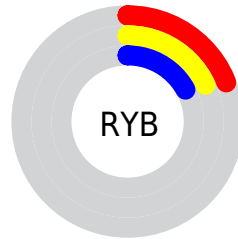
Distribution



Red (19%)

Green (18%)

Blue (17%)



Red (19%)

Yellow (18%)

Blue (17%)

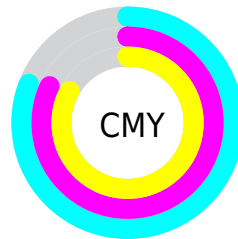


Cyan (0%)

Magenta (8%)

Yellow (10%)

Black (81%)



Cyan (81%)

Magenta (82%)

Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 2.043, 39.216 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, 2.043, 39.216 by changing the saturation by 10% instead.

■ 19, 2.043, 39.216 ■ 19, 2.043, 39.216

■ 100, 2.043, 39.216 ■ 9, 2.043, 39.216

■ 39, 2.043, 39.216 ■ 0, 2.043, 39.216

■ 49, 2.043, 39.216

■ 59, 2.043, 39.216

■ 69, 2.043, 39.216

■ 79, 2.043, 39.216

■ 89, 2.043, 39.216

■ 99, 2.043, 39.216

■ 19, 2.043, 39.216 ■ 19, 2.043, 39.216

18, 4.197, 39.194	20, 0.028, 32.156
16, 6.501, 39.197	22, 1.860, 219.825
15, 8.964, 39.293	23, 3.631, 220.022
13, 11.588, 39.509	25, 5.298, 220.283
12, 14.310, 39.568	26, 6.871, 220.574
11, 16.759, 38.157	28, 8.360, 220.882
10, 18.911, 35.801	29, 9.774, 221.202
9, 20.912, 33.718	31, 11.121, 221.527
8, 22.790, 32.560	32, 12.407, 221.855

Harmonies

Complementary

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



19, 2.043, 39.216



20, 1.939, 219.841

Rectangle

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



19, 2.043, 39.216



19, 2.043, 89.216



19, 2.043, 219.216



19, 2.043, 269.216

Sweetspot

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



19, 2.043, 39.240



26, 0.731, 39.117



19, 3.631, 331.018



12, 0.561, 39.151



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, 2.043, 39.240



25, 3.022, 39.229



20, 2.481, 92.643



8, 1.134, 39.090



18, 41.887, 41.214



48, 88.076, 43.255

Inverse Universe

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



20, 1.939, 219.841



26, 2.830, 219.893



19, 2.489, 274.801



9, 1.090, 219.814



28, 20.313, 232.540



66, 38.909, 236.071

Previews

White Background



This preview shows how the CIELCh color 19, 2.043, 39.216 looks on a white background.

Color Contrast Check

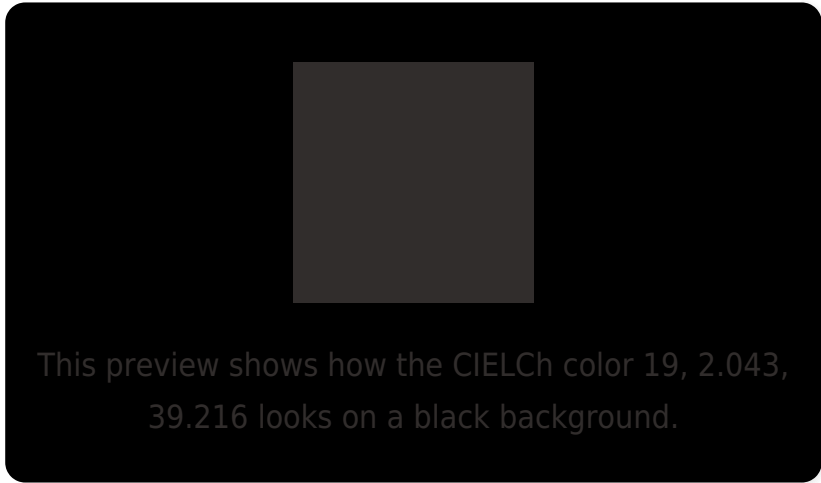
Large Text (above 18pt) WCAG AA ✓ Pass

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

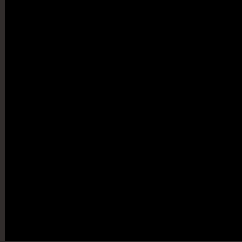
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

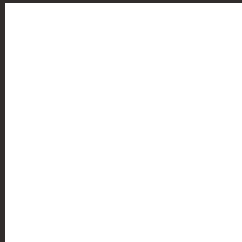
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 2.043, 39.216

Background



This preview shows how black text looks on a background with the CIELCh color 19, 2.043, 39.216.

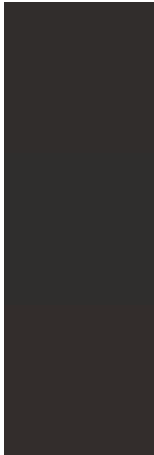


This preview shows how white text looks on a background with the CIELCh color 19, 2.043, 39.216.

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, 2.043, 39.216

Protanopia

19, 0.827, 74.836

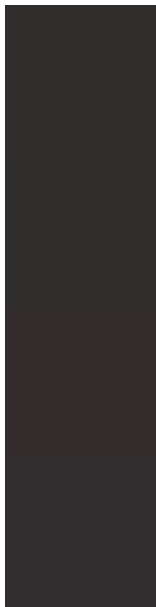
Deuteranopia

19, 2.989, 33.105



Tritanopia
19, 3.138, 339.214

Trichromacy



Original Color

19, 2.043, 39.216

Protanomaly

19, 1.168, 55.135

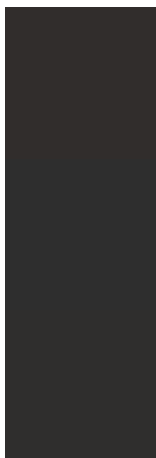
Deuteranomaly

19, 2.511, 35.574

Tritanomaly

19, 2.746, 350.105

Monochromacy



Original Color

19, 2.043, 39.216

Achromatopsia

19, 0.004, 296.813

Achromatomaly

19, 0.827, 74.836

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 2.043, 39.216 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, 45, 44)` looks like.

```
.text, #text, p{  
    color:rgb(49, 45, 44)  
}
```

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, 45, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 45, 44) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 2.043, 39.216 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, 45, 44) }
```

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

```
.border{ border-color:rgb(49, 45, 44) }
```

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

Here you see how a box with a 4 pixel rgb(49, 45, 44) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 45, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 45, 44);  
box-shadow:4px 4px 4px 4px rgb(49, 45, 44)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 2.043, 39.216 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 45, 44) }
```

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

```
.background{ background-color: rgb(49, 45,  
44) }
```

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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