

Converting Colors

CIELCh(19, 0.413, 355.798)

Have a look what the booklet for
CIELCh(19, 0.413, 355.798) contains.

CIELCh(19, 0.473, 19.084)	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, 0.473, 19.084)

Conversions

Conversions Part 1

Format	Color
Hex	2F2E2E
RGB	47, 46, 46
RGB Percent	18%, 18%, 18%
CMY	0.8160, 0.8199, 0.8199
CMYK	0.00, 0.02, 0.02, 0.82
HSL	0°, 1%, 18%
HSV	0°, 2%, 18%
XYZ	2.6340, 2.7468, 2.9679
YIQ	46.2990, 0.5960, 0.2120

Conversions

Conversions Part 2

Format	Color
R_{YB}	47, 46, 46
Decimal	3092014
CIE Lab	19.00, 0.45, 0.15
CIE LCh	19, 0.473, 19.084
Yxy	2.7468, 0.3155, 0.3290
Android (android.graphics.Color)	4281282094 (0xFF2F2E2E)
YUV	46.2990, -0.1474, 0.6148
Hunter-Lab	16.5735, -0.6345, 0.9842

Details

The CIELCh color **19, 0.473, 19.084** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 0.467, 199.823**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 0.422, 18.716**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **17, 2.777, 20.049**, and if you desaturate by 10%, it is **21, 1.688, 199.279**.

Distribution



Red (18%)

Green (18%)

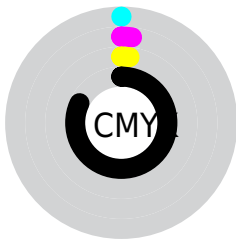
Blue (18%)



Red (18%)

Yellow (18%)

Blue (18%)



Cyan (0%)

Magenta (2%)

Yellow (2%)

Black (82%)



Cyan (82%)

Magenta (82%)

Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 0.473, 19.084 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, 0.473, 19.084 by changing the saturation by 10% instead.

■ 19, 0.473, 19.084 ■ 19, 0.473, 19.084

100, 0.473, 19.084 ■ 9, 0.473, 19.084

■ 39, 0.473, 19.084 ■ 0, 0.473, 19.084

■ 49, 0.473, 19.084

■ 59, 0.473, 19.084

■ 69, 0.473, 19.084

■ 79, 0.473, 19.084

■ 89, 0.473, 19.084

■ 99, 0.473, 19.084

■ 19, 0.473, 19.084 ■ 19, 0.473, 19.084

17, 2.777, 20.049	21, 1.688, 199.279
16, 5.233, 20.736	22, 3.715, 198.857
14, 7.842, 21.558	24, 5.619, 198.543
12, 10.599, 22.572	26, 7.412, 198.287
11, 13.486, 23.823	28, 9.106, 198.075
10, 16.288, 24.000	29, 10.710, 197.896
8, 18.832, 23.048	31, 12.234, 197.744
7, 21.018, 21.896	
6, 23.014, 21.065	33, 13.687, 197.614
	35, 15.077, 197.502

Harmonies

Complementary

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



19, 0.473, 19.084



19, 0.467, 199.823

Rectangle

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



19, 0.473, 19.084



19, 0.473, 69.084



19, 0.473, 199.084



19, 0.473, 249.084

Sweetspot

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



19, 0.473, 19.164



26, 0.277, 18.677



19, 0.838, 324.425



11, 0.154, 18.508



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



19, 0.473, 19.164



25, 0.835, 19.356



19, 0.410, 74.882



7, 0.457, 19.212



16, 43.780, 33.571



45, 91.670, 40.009

Inverse Universe

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



19, 0.467, 199.823



26, 0.820, 199.634



19, 0.414, 255.955



8, 0.456, 199.777



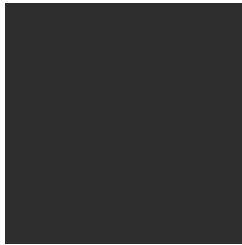
33, 22.808, 196.525



78, 43.874, 196.537

Previews

White Background



This preview shows how the CIELCh color 19, 0.473, 19.084 looks on a white background.

Color Contrast Check

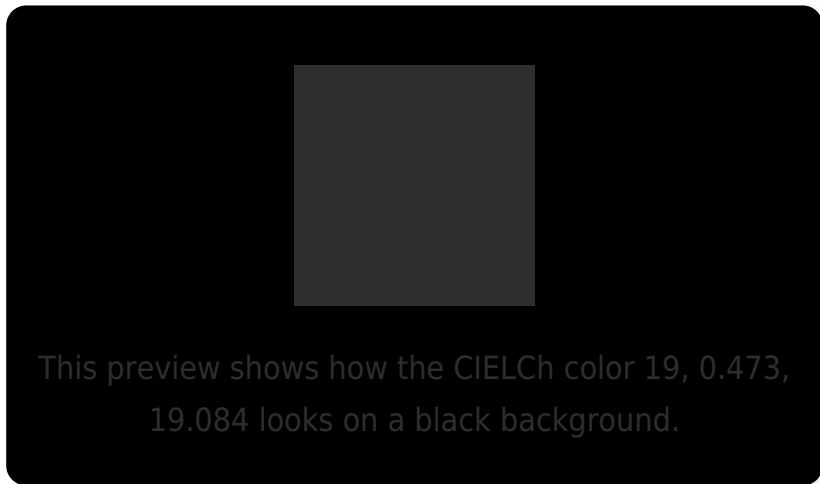
Large Text (above 18pt) WCAG AA ✓ Pass

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

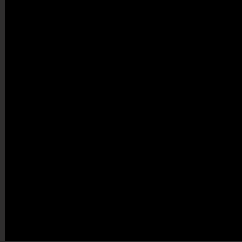
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

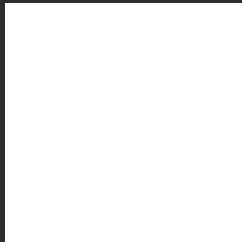
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 0.473, 19.084

Background



This preview shows how black text looks on a background with the CIELCh color 19, 0.473, 19.084.

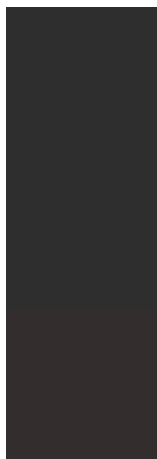


This preview shows how white text looks on a background with the CIELCh color 19, 0.473, 19.084.

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, 0.473, 19.084

Protanopia

19, 0.473, 19.084

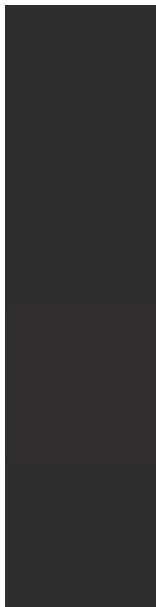
Deuteranopia

19, 2.955, 6.660



Tritanopia
19, 2.914, 309.352

Trichromacy



Original Color

19, 0.473, 19.084

Protanomaly

19, 0.473, 19.084

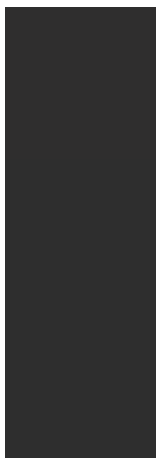
Deuteranomaly

19, 2.487, 3.946

Tritanomaly

19, 2.275, 314.853

Monochromacy



Original Color

19, 0.473, 19.084

Achromatopsia

19, 0.004, 296.813

Achromatomaly

19, 0.004, 296.813

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 0.473, 19.084 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(47, 46, 46)` looks like.

```
.text, #text, p{  
    color:rgb(47, 46, 46)  
}
```

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(47, 46, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 46, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 0.473, 19.084 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(47, 46, 46) }
```

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

```
.border{ border-color:rgb(47, 46, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 46, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 46, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 46, 46);  
box-shadow:4px 4px 4px 4px rgb(47, 46, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 0.473, 19.084 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 46, 46) }
```

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

```
.background{ background-color: rgb(47, 46,  
46) }
```

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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