

Converting Colors

CIELCh(19, 1.143, 129.011)

Have a look what the booklet for
CIELCh(19, 1.143, 129.011) contains.

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Color

CIELCh(19, 0.681, 109.975)

Conversions

Conversions Part 1

Format	Color
Hex	2E2E2D
RGB	46, 46, 45
RGB Percent	18%, 18%, 18%
CMY	0.8188, 0.8188, 0.8227
CMYK	0.00, 0.00, 0.02, 0.82
HSL	60°, 1%, 18%
HSV	60°, 2%, 18%
XYZ	2.5987, 2.7468, 2.8967
YIQ	45.8860, 0.3210, -0.3110

Conversions

Conversions Part 2

Format	Color
R_{YB}	45, 46, 45
Decimal	3026477
CIE Lab	19.00, -0.23, 0.64
CIE LCh	19, 0.681, 109.975
Yxy	2.7468, 0.3153, 0.3333
Android (android.graphics.Color)	4281216557 (0xFF2E2E2D)
YUV	45.8860, -0.4368, 0.1000
Hunter-Lab	16.5735, -1.0151, 1.2390

Details

The CIELCh color **19, 0.681, 109.975** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 0.691, 290.422**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 0.606, 110.022**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 3.838, 109.258**, and if you desaturate by 10%, it is **19, 2.481, 290.830**.

Distribution



 Red (18%)

 Green (18%)

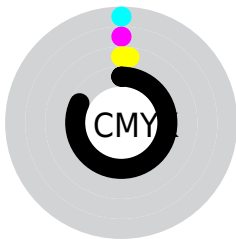
 Blue (18%)



 Red (18%)

 Yellow (18%)

 Blue (18%)



 Cyan (0%)

 Magenta (0%)

 Yellow (2%)

 Black (82%)



 Cyan (82%)

 Magenta (82%)

 Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 0.681, 109.975 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, 0.681, 109.975 by changing the saturation by 10% instead.

 19, 0.681, 109.975	 19, 0.681, 109.975
 100, 0.681, 109.975	 9, 0.681, 109.975
 39, 0.681, 109.975	 0, 0.681, 109.975
 49, 0.681, 109.975	
 59, 0.681, 109.975	
 69, 0.681, 109.975	
 79, 0.681, 109.975	
 89, 0.681, 109.975	
 99, 0.681, 109.975	

■ 19, 0.681, 109.975

■ 19, 0.681, 109.975

■ 19, 3.838, 109.258

■ 19, 2.481, 290.830

■ 19, 6.978, 108.469

■ 19, 5.643, 291.578

■ 19, 10.086,
107.679

■ 20, 8.799, 292.308

■ 19, 13.143,
106.898

■ 20, 11.943,
293.014

■ 18, 16.117,
106.140

■ 20, 15.074,
293.692

■ 18, 18.961,
105.423

■ 20, 18.188,
294.343

■ 18, 21.401,
104.913

■ 20, 21.283,
294.964

■ 18, 23.356,
104.595

■ 21, 24.358,
295.555

■ 21, 27.410,

■ 18, 25.217,
104.347

296.117

Harmonies

Complementary

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



19, 0.681, 109.975



19, 0.691, 290.422

Rectangle

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



19, 0.681, 109.975



19, 0.681, 159.975



19, 0.681, 289.975



19, 0.681, 339.975

Sweetspot

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



19, 0.682, 110.015



26, 0.396, 110.066



19, 0.475, 19.091



12, 0.220, 110.065



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, 0.682, 110.015



26, 1.197, 109.947



19, 0.725, 129.051



8, 0.662, 110.195



36, 44.162, 102.910



83, 84.963, 102.915

Inverse Universe

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



19, 0.691, 290.422



25, 1.212, 290.492



19, 0.733, 309.087



7, 0.667, 290.238



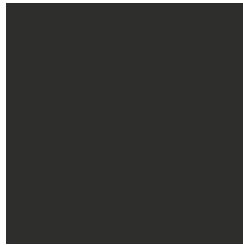
6, 60.346, 305.923



26, 117.313, 306.290

Previews

White Background



This preview shows how the CIELCh color 19, 0.681, 109.975 looks on a white background.

Color Contrast Check

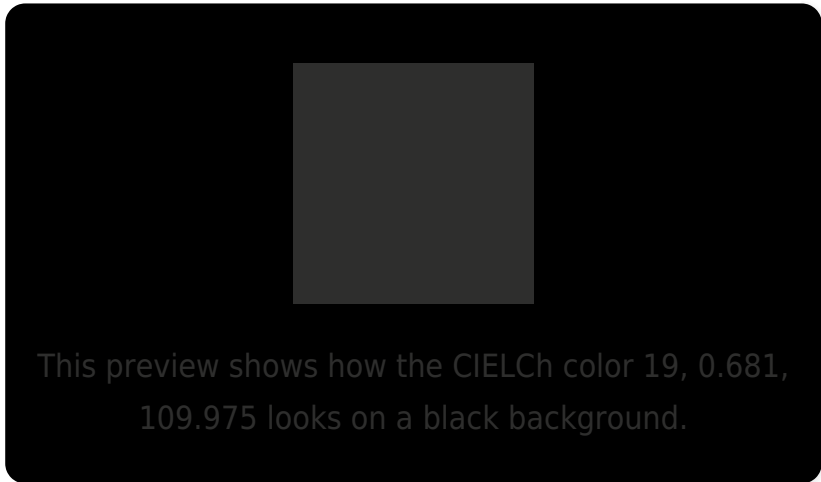
Large Text (above 18pt) WCAG AA ✓ Pass

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

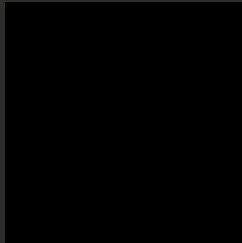
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

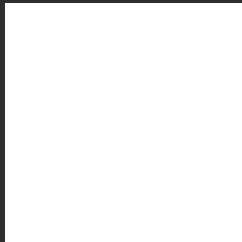
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 0.681, 109.975

Background



This preview shows how black text looks on a background with the CIELCh color 19, 0.681, 109.975.

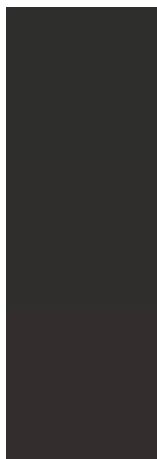


This preview shows how white text looks on a background with the CIELCh color 19, 0.681, 109.975.

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, 0.681, 109.975

Protanopia

19, 0.827, 74.836

Deuteranopia

19, 2.955, 6.660



Tritanopia
19, 2.116, 303.314

Trichromacy



Original Color

19, 0.681, 109.975

Protanomaly

19, 0.827, 74.836

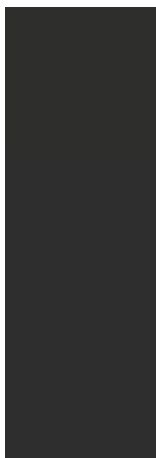
Deuteranomaly

19, 2.028, 0.060

Tritanomaly

19, 1.456, 309.188

Monochromacy



Original Color

19, 0.681, 109.975

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, 0.681, 109.975 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(46, 46, 45)` looks like.

```
.text, #text, p{  
    color:rgb(46, 46, 45)  
}
```

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(46, 46, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 46, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 0.681, 109.975 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(46, 46, 45) }
```

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

```
.border{ border-color:rgb(46, 46, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 46, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 46, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 46, 45);  
box-shadow:4px 4px 4px 4px rgb(46, 46, 45)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 0.681, 109.975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 46, 45) }
```

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

```
.background{ background-color: rgb(46, 46,  
45) }
```

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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