

Converting Colors

CIELCh(16, 4.899, 20.549)

Have a look what the booklet for
CIELCh(16, 4.899, 20.549) contains.

CIELCh(16, 5.029, 20.598)	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(16, 5.029, 20.598)

Conversions

Conversions Part 1

Format	Color
Hex	2F2525
RGB	47, 37, 37
RGB Percent	18%, 15%, 15%
CMY	0.8140, 0.8533, 0.8533
CMYK	0.00, 0.21, 0.21, 0.81
HSL	0°, 12%, 17%
HSV	0°, 21%, 19%
XYZ	2.2067, 2.0993, 2.0729
YIQ	39.9900, 5.9600, 2.1200

Conversions

Conversions Part 2

Format	Color
RYB	47, 37, 37
Decimal	3089701
CIELab	16.00, 4.71, 1.77
CIElCh	16, 5.029, 20.598
Yxy	2.0993, 0.3459, 0.3291
Android (android.graphics.Color)	4281279781 (0xFF2F2525)
YUV	39.9900, -1.4741, 6.1478
Hunter-Lab	14.4890, 1.8299, 1.6600

Details

The CIELCh color **16, 5.029, 20.598** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 4.491, 198.549**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 4.819, 20.051**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 7.649, 21.417**, and if you desaturate by 10%, it is **18, 2.563, 19.924**.

Distribution



Red (18%)

Green (15%)

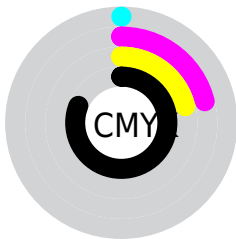
Blue (15%)



Red (18%)

Yellow (15%)

Blue (15%)

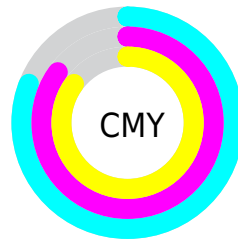


Cyan (0%)

Magenta (21%)

Yellow (21%)

Black (81%)



Cyan (81%)

Magenta (85%)

Yellow (85%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 5.029, 20.598 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 16, 5.029, 20.598 by changing the saturation by 10% instead.

 16, 5.029, 20.598  16, 5.029, 20.598

 100, 5.029, 20.598  6, 5.029, 20.598

 36, 5.029, 20.598  0, 5.029, 20.598

 46, 5.029, 20.598

 56, 5.029, 20.598

 66, 5.029, 20.598

 76, 5.029, 20.598

 86, 5.029, 20.598

 96, 5.029, 20.598

 16, 5.029, 20.598  16, 5.029, 20.598

14, 7.649, 21.417	18, 2.563, 19.924
13, 10.420, 22.417	19, 0.251, 18.671
11, 13.324, 23.662	21, 1.917, 199.160
10, 16.193, 24.148	23, 3.950, 198.753
9, 18.800, 23.349	25, 5.860, 198.444
7, 21.067, 22.169	26, 7.660, 198.191
6, 23.121, 21.268	28, 9.360, 197.981
6, 24.870, 20.660	30, 10.970, 197.803
	32, 12.501, 197.653

Harmonies

Complementary

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



16, 5.029, 20.598



19, 4.491, 198.549

Rectangle

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



16, 5.029, 20.598



16, 5.029, 70.598



16, 5.029, 200.598



16, 5.029, 250.598

Sweetspot

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



16, 5.028, 20.606



25, 1.687, 19.598



16, 8.436, 325.382



11, 1.092, 19.590



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



16, 5.028, 20.606



21, 7.500, 21.010



18, 4.279, 73.259



7, 1.112, 19.319



16, 43.793, 33.544



45, 91.680, 40.002

Inverse Universe

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



19, 4.491, 198.549



25, 6.498, 198.332



17, 4.091, 257.873



7, 1.112, 199.542



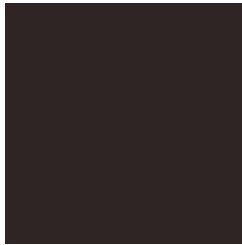
33, 22.831, 196.416



78, 43.923, 196.418

Previews

White Background



This preview shows how the CIELCh color 16, 5.029, 20.598 looks on a white background.

Color Contrast Check

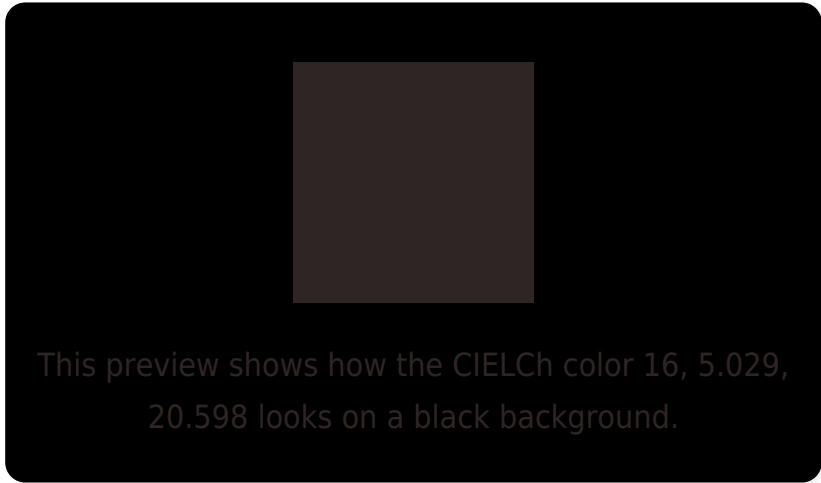
Large Text (above 18pt) WCAG AA ✓ Pass

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

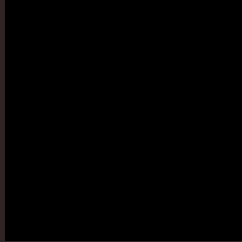
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 5.029, 20.598

Background



This preview shows how black text looks on a background with the CIELCh color 16, 5.029, 20.598.

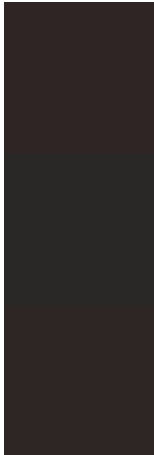


This preview shows how white text looks on a background with the CIELCh color 16, 5.029, 20.598.

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

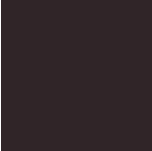
16, 5.029, 20.598

Protanopia

16, 0.845, 74.806

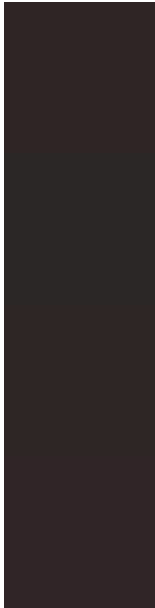
Deuteranopia

16, 3.574, 31.390



Tritanopia
16, 5.803, 359.781

Trichromacy



Original Color

16, 5.029, 20.598

Protanomaly

16, 2.092, 39.213

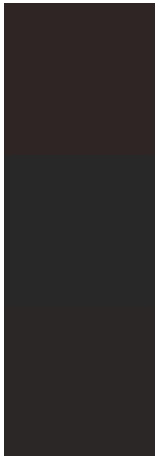
Deuteranomaly

16, 4.079, 30.099

Tritanomaly

16, 5.630, 6.509

Monochromacy



Original Color

16, 5.029, 20.598

Achromatopsia

16, 0.003, 296.813

Achromatomaly

16, 1.960, 19.774

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 5.029, 20.598 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, 37, 37)` looks like.

```
.text, #text, p{  
    color:rgb(47, 37, 37)  
}
```

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, 37, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 37, 37) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 5.029, 20.598 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, 37, 37) }
```

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

```
.border{ border-color:rgb(47, 37, 37) }
```

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

Here you see how a box with a 4 pixel rgb(47, 37, 37) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 37, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 37, 37);  
box-shadow:4px 4px 4px 4px rgb(47, 37, 37)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 5.029, 20.598 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 37, 37) }
```

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

```
.background{ background-color: rgb(47, 37,  
37) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor