

Converting Colors

CIELCh(28, 2.702, 19.218)

Have a look what the booklet for
CIELCh(28, 2.702, 19.218) contains.

CIELCh(28, 2.715, 19.777)	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(28, 2.715, 19.777)

Conversions

Conversions Part 1

Format	Color
Hex	474141
RGB	71, 65, 65
RGB Percent	28%, 25%, 25%
CMY	0.7226, 0.7462, 0.7462
CMYK	0.00, 0.08, 0.08, 0.72
HSL	0°, 4%, 27%
HSV	0°, 8%, 28%
XYZ	5.3995, 5.4574, 5.7289
YIQ	66.7940, 3.5760, 1.2720

Conversions

Conversions Part 2

Format	Color
RYB	71, 65, 65
Decimal	4669761
CIELab	28.00, 2.55, 0.92
CIELCh	28, 2.715, 19.777
Yxy	5.4574, 0.3256, 0.3290
Android (android.graphics.Color)	4282859841 (0xFF474141)
YUV	66.7940, -0.8844, 3.6887
Hunter-Lab	23.3610, 0.3757, 1.8129

Details

The CIELCh color $[28, 2.715, 19.777]$ is a dark color, and the websafe version is hex 333333 . A complement of this color would be $[30, 2.589, 199.112]$, and the grayscale version is $[28, 0.004, 296.813]$.

A 20% lighter version of the original color is $[48, 2.457, 19.544]$, and $[8, 2.658, 20.126]$ is the 20% darker color. If you saturate the color by 10%, you get $[26, 6.128, 20.523]$, and if you desaturate by 10%, it is $[30, 0.470, 199.913]$.

Distribution



 Red (28%)

 Green (25%)

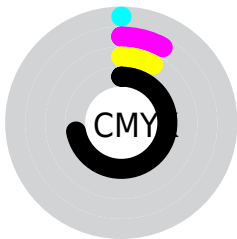
 Blue (25%)



 Red (28%)

 Yellow (25%)

 Blue (25%)



 Cyan (0%)

 Magenta (8%)

 Yellow (8%)

 Black (72%)



 Cyan (72%)

 Magenta (75%)

 Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 2.715, 19.777 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 28, 2.715, 19.777 by changing the saturation by 10% instead.

■ 28, 2.715, 19.777 ■ 28, 2.715, 19.777

■ 100, 2.715, 19.777 ■ 18, 2.715, 19.777

■ 48, 2.715, 19.777 ■ 8, 2.715, 19.777

■ 58, 2.715, 19.777 ■ 0, 2.715, 19.777

■ 68, 2.715, 19.777

■ 78, 2.715, 19.777

■ 88, 2.715, 19.777

■ 98, 2.715, 19.777

■ 28, 2.715, 19.777 ■ 28, 2.715, 19.777

■ 26, 6.128, 20.523 ■ 30, 0.470, 199.913

23, 9.776, 21.388	33, 3.440, 198.996
21, 13.653, 22.471	35, 6.213, 198.609
19, 17.729, 23.844	38, 8.809, 198.307
17, 21.953, 25.583	40, 11.245, 198.060
15, 26.240, 27.765	43, 13.540, 197.857
14, 30.158, 29.381	45, 15.711, 197.686
13, 33.195, 29.789	48, 17.770, 197.542
12, 36.103, 29.669	50, 19.732, 197.420

Harmonies

Complementary

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



28, 2.715, 19.777



30, 2.589, 199.112

Rectangle

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



28, 2.715, 19.777



28, 2.715, 69.777



28, 2.715, 199.777



28, 2.715, 249.777

Sweetspot

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



28, 2.714, 19.796



38, 1.171, 19.321



28, 4.713, 324.828



18, 0.876, 19.392



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



28, 2.714, 19.796



36, 4.003, 19.932



29, 2.346, 74.431



13, 1.799, 19.805



19, 49.399, 35.628



47, 95.755, 40.002

Inverse Universe

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



30, 2.589, 199.112



38, 3.776, 199.003



29, 2.308, 256.458



14, 1.715, 199.104



38, 25.115, 196.416



82, 45.875, 196.419

Previews

White Background



This preview shows how the CIELCh color 28, 2.715, 19.777 looks on a white background.

Color Contrast Check

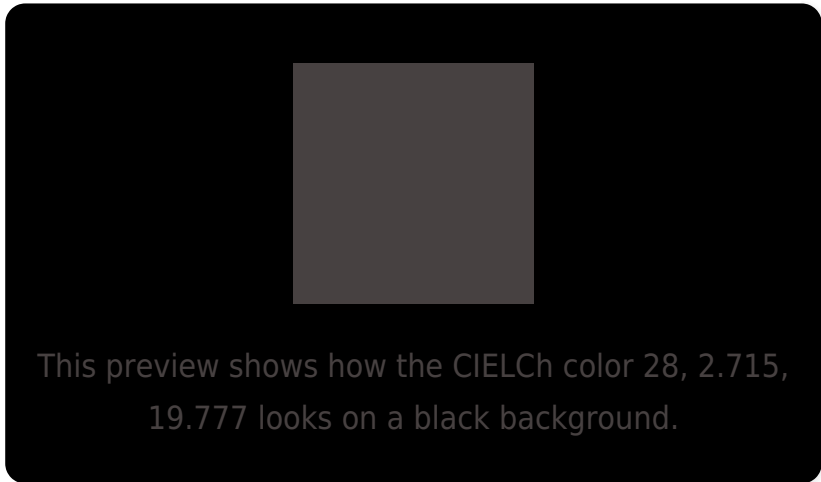
Large Text (above 18pt) WCAG AA ✓ Pass

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

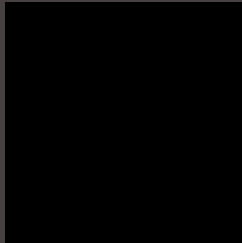
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 2.715, 19.777

Background



This preview shows how black text looks on a background with the CIELCh color 28, 2.715, 19.777.

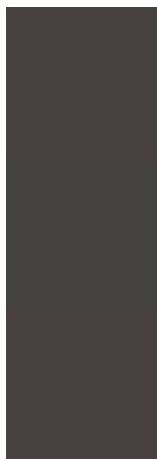


This preview shows how white text looks on a background with the CIELCh color 28, 2.715, 19.777.

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

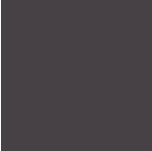
28, 2.715, 19.777

Protanopia

28, 0.779, 74.886

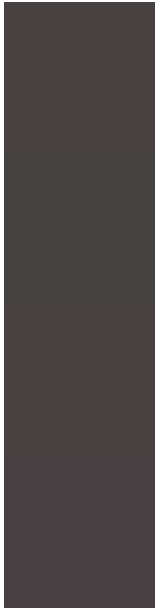
Deuteranopia

28, 4.142, 11.140



Tritanopia
28, 4.505, 334.269

Trichromacy



Original Color

28, 2.715, 19.777

Protanomaly

28, 1.099, 55.184

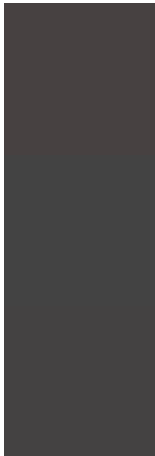
Deuteranomaly

28, 3.687, 9.927

Tritanomaly

28, 3.700, 348.411

Monochromacy



Original Color

28, 2.715, 19.777

Achromatopsia

28, 0.004, 296.813

Achromatomaly

28, 0.894, 19.275

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 28, 2.715, 19.777 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(71, 65, 65)` looks like.

```
.text, #text, p{  
    color:rgb(71, 65, 65)  
}
```

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(71, 65, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 65, 65) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 2.715, 19.777 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(71, 65, 65) }
```

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

```
.border{ border-color:rgb(71, 65, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 65, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 65, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 65, 65);  
box-shadow:4px 4px 4px 4px rgb(71, 65, 65)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 2.715, 19.777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 65, 65) }
```

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

```
.background{ background-color: rgb(71, 65,  
65) }
```

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