

Converting Colors

CIELCh(28, 1.233, 19.445)

Have a look what the booklet for
CIELCh(28, 1.233, 19.445) contains.

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Color

CIELCh(28, 1.348, 19.451)

Conversions

Conversions Part 1

Format	Color
Hex	444141
RGB	68, 65, 65
RGB Percent	27%, 25%, 25%
CMY	0.7317, 0.7435, 0.7435
CMYK	0.00, 0.04, 0.04, 0.73
HSL	0°, 2%, 26%
HSV	0°, 4%, 27%
XYZ	5.2921, 5.4574, 5.8373
YIQ	65.8970, 1.7880, 0.6360

Conversions

Conversions Part 2

Format	Color
R _Y B	68, 65, 65
Decimal	4473153
CIE Lab	28.00, 1.27, 0.45
CIE LCh	28, 1.348, 19.451
Yxy	5.4574, 0.3191, 0.3290
Android (android.graphics.Color)	4282663233 (0xFF444141)
YUV	65.8970, -0.4422, 1.8443
Hunter-Lab	23.3610, -0.4455, 1.5377

Details

The CIELCh color **28, 1.348, 19.451** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **29, 1.315, 199.426**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 1.223, 19.251**, and **8, 1.048, 19.394** is the 20% darker color. If you saturate the color by 10%, you get **26, 4.573, 20.231**, and if you desaturate by 10%, it is **30, 1.662, 199.344**.

Distribution



Red (27%)

Green (25%)

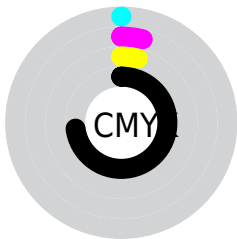
Blue (25%)



Red (27%)

Yellow (25%)

Blue (25%)



Cyan (0%)

Magenta (4%)

Yellow (4%)

Black (73%)



Cyan (73%)

Magenta (74%)

Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 1.348, 19.451 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, 1.348, 19.451 by changing the saturation by 10% instead.

■ 28, 1.348, 19.451 ■ 28, 1.348, 19.451

100, 1.348, 19.451 ■ 18, 1.348, 19.451

■ 48, 1.348, 19.451 ■ 8, 1.348, 19.451

■ 58, 1.348, 19.451 ■ 0, 1.348, 19.451

■ 68, 1.348, 19.451

■ 78, 1.348, 19.451

■ 88, 1.348, 19.451

■ 98, 1.348, 19.451

■ 28, 1.348, 19.451 ■ 28, 1.348, 19.451

■ 26, 4.573, 20.231 ■ 30, 1.662, 199.344

23, 8.025, 21.020	33, 4.471, 198.850
21, 11.702, 21.995	35, 7.096, 198.505
19, 15.587, 23.226	38, 9.557, 198.229
17, 19.640, 24.786	40, 11.871, 198.002
15, 23.795, 26.751	42, 14.055, 197.814
14, 27.811, 28.653	45, 16.123, 197.655
13, 31.055, 29.210	47, 18.090, 197.521
12, 33.845, 29.124	49, 19.965, 197.407

Harmonies

Complementary

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



28, 1.348, 19.451



29, 1.315, 199.426

Rectangle

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



28, 1.348, 19.451



28, 1.348, 69.451



28, 1.348, 199.451



28, 1.348, 249.451

Sweetspot

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



28, 1.347, 19.487



38, 0.379, 18.690



28, 2.369, 324.603



19, 0.217, 18.579



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, 1.347, 19.487



36, 1.920, 19.563



28, 1.170, 74.805



12, 1.000, 19.552



18, 48.287, 35.274



47, 94.940, 40.004

Inverse Universe

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



29, 1.315, 199.426



38, 1.865, 199.356



28, 1.166, 256.046



13, 0.972, 199.366



37, 24.654, 196.454



81, 45.469, 196.459

Previews

White Background



This preview shows how the CIELCh color 28, 1.348, 19.451 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



This preview shows how the CIE LCh color 28, 1.348, 19.451 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

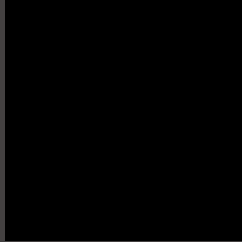
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

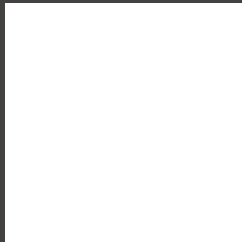
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 28, 1.348, 19.451

Background



This preview shows how black text looks on a background with the CIELCh color 28, 1.348, 19.451.

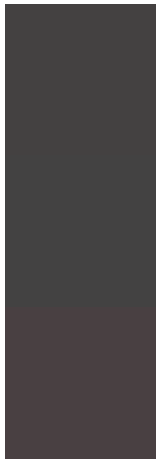


This preview shows how white text looks on a background with the CIELCh color 28, 1.348, 19.451.

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, 1.348, 19.451

Protanopia

28, 0.446, 18.918

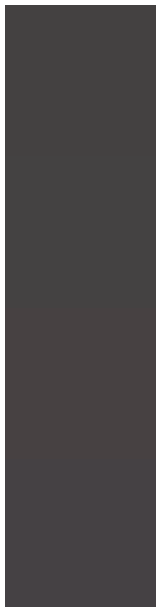
Deuteranopia

28, 4.274, 2.570



Tritanopia
28, 3.704, 319.063

Trichromacy



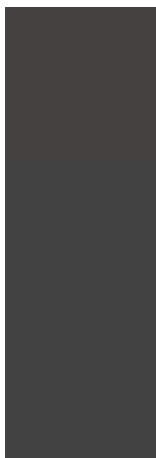
Original Color
28, 1.348, 19.451

Protanomaly
28, 0.894, 19.275

Deuteranomaly
28, 2.782, 6.414

Tritanomaly
28, 2.647, 332.613

Monochromacy



Original Color
28, 1.348, 19.451

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 0.446, 18.918

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 1.348, 19.451 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(68, 65, 65)` looks like.

```
.text, #text, p{  
    color:rgb(68, 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(68, 65, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 65, 65) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 1.348, 19.451 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(68, 65, 65) }
```

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

```
.border{ border-color:rgb(68, 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(68, 65, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 65, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 65, 65);  
box-shadow:4px 4px 4px 4px rgb(68, 65, 65)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 1.348, 19.451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 65, 65) }
```

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

```
.background{ background-color: rgb(68, 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](#).

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