

Converting Colors

CIELCh(28, 2.565, 54.221)

Have a look what the booklet for
CIELCh(28, 2.565, 54.221) contains.

CIELCh(28, 2.615, 49.176)	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, 2.615, 49.176)

Conversions

Conversions Part 1

Format	Color
Hex	46413F
RGB	70, 65, 63
RGB Percent	27%, 25%, 25%
CMY	0.7251, 0.7447, 0.7526
CMYK	0.00, 0.07, 0.10, 0.73
HSL	17°, 5%, 26%
HSV	17°, 10%, 27%
XYZ	5.3286, 5.4574, 5.4892
YIQ	66.2670, 3.6220, 0.4380

Conversions

Conversions Part 2

Format	Color
RYB	70, 66, 63
Decimal	4604223
CIELab	28.00, 1.71, 1.98
CIELCh	28, 2.615, 49.176
Yxy	5.4574, 0.3274, 0.3353
Android (android.graphics.Color)	4282794303 (0xFF46413F)
YUV	66.2670, -1.6106, 3.2738
Hunter-Lab	23.3610, -0.1663, 2.4212

Details

The CIELCh color **28, 2.615, 49.176** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **29, 2.491, 230.517**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 2.359, 49.307**, and **8, 2.564, 53.298** is the 20% darker color. If you saturate the color by 10%, you get **26, 5.415, 48.770**, and if you desaturate by 10%, it is **30, 0.006, 273.513**.

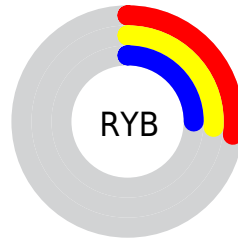
Distribution



Red (27%)

Green (25%)

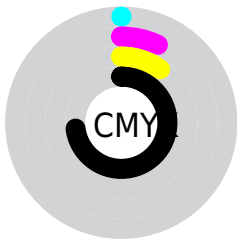
Blue (25%)



Red (27%)

Yellow (26%)

Blue (25%)

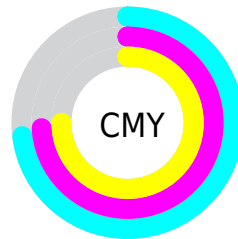


Cyan (0%)

Magenta (7%)

Yellow (10%)

Black (73%)



Cyan (73%)

Magenta (74%)

Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 2.615, 49.176 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, 2.615, 49.176 by changing the saturation by 10% instead.

 28, 2.615, 49.176  28, 2.615, 49.176

 100, 2.615, 49.176  18, 2.615, 49.176

 48, 2.615, 49.176  8, 2.615, 49.176

 58, 2.615, 49.176  0, 2.615, 49.176

 68, 2.615, 49.176

 78, 2.615, 49.176

 88, 2.615, 49.176

 98, 2.615, 49.176

 28, 2.615, 49.176  28, 2.615, 49.176

 26, 5.415, 48.770  30, 0.006, 273.513

25, 8.412, 48.369	32, 2.460, 230.474
23, 11.620, 48.039	33, 4.768, 231.006
21, 15.046, 47.800	35, 6.945, 231.582
20, 18.685, 47.666	37, 9.005, 232.172
18, 22.514, 47.636	39, 10.962, 232.763
17, 26.149, 47.035	41, 12.826, 233.351
16, 29.044, 45.221	42, 14.610, 233.931
14, 31.763, 43.861	44, 16.320, 234.501

Harmonies

Complementary

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



28, 2.615, 49.176



29, 2.491, 230.517

Rectangle

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



28, 2.615, 49.176



28, 2.615, 99.176



28, 2.615, 229.176



28, 2.615, 279.176

Sweetspot

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



28, 2.615, 49.200



38, 0.959, 49.345



28, 4.525, 334.181



18, 0.718, 49.362



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, 2.615, 49.200



36, 3.963, 49.095



29, 3.577, 98.346



13, 1.474, 49.255



22, 44.776, 46.558



52, 87.655, 46.345

Inverse Universe

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



29, 2.491, 230.517



37, 3.724, 230.673



27, 3.613, 280.474



13, 1.414, 230.440



28, 23.486, 250.235



63, 44.134, 254.172

Previews

White Background



This preview shows how the CIELCh color 28, 2.615, 49.176 looks on a white background.

Color Contrast Check

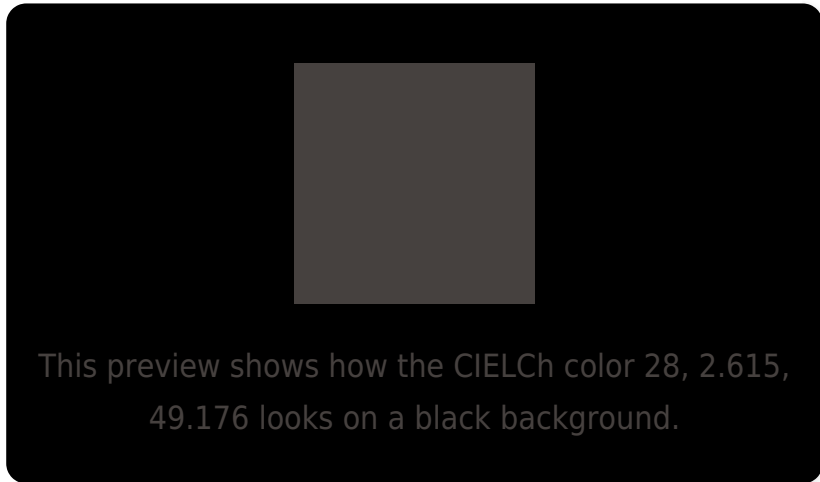
Large Text (above 18pt) WCAG AA ✓ Pass

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

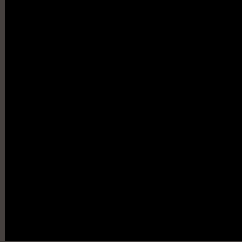
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 2.615, 49.176

Background



This preview shows how black text looks on a background with the CIELCh color 28, 2.615, 49.176.

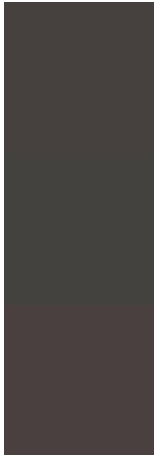


This preview shows how white text looks on a background with the CIELCh color 28, 2.615, 49.176.

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

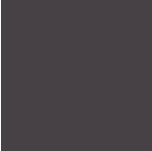
28, 2.615, 49.176

Protanopia

28, 2.129, 84.540

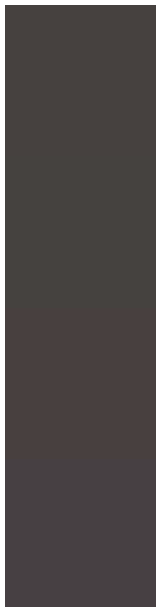
Deuteranopia

28, 4.181, 28.886



Tritanopia
28, 4.505, 334.269

Trichromacy



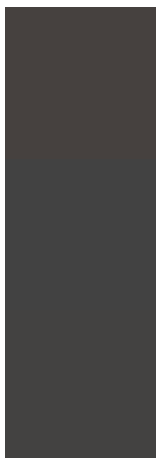
Original Color
28, 2.615, 49.176

Protanomaly
28, 2.358, 74.412

Deuteranomaly
28, 3.720, 29.916

Tritanomaly
28, 3.700, 348.411

Monochromacy



Original Color
28, 2.615, 49.176

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 0.779, 74.886

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 28, 2.615, 49.176 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(70, 65, 63)` looks like.

```
.text, #text, p{  
    color:rgb(70, 65, 63)  
}
```

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(70, 65, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 65, 63) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 2.615, 49.176 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(70, 65, 63) }
```

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

```
.border{ border-color:rgb(70, 65, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 65, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 65, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 65, 63);  
box-shadow:4px 4px 4px 4px rgb(70, 65, 63)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 2.615, 49.176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 65, 63) }
```

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

```
.background{ background-color: rgb(70, 65,  
63) }
```

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