

Converting Colors

CIELCh(28, 3.354, 4.220)

Have a look what the booklet for
CIELCh(28, 3.354, 4.220) contains.

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Color

CIELCh(28, 3.840, 0.404)

Conversions

Conversions Part 1

Format	Color
Hex	484042
RGB	72, 64, 66
RGB Percent	28%, 25%, 26%
CMY	0.7172, 0.7485, 0.7407
CMYK	0.00, 0.11, 0.08, 0.72
HSL	345°, 6%, 27%
HSV	345°, 11%, 28%
XYZ	5.5086, 5.4574, 5.9358
YIQ	66.6200, 4.1260, 2.3180

Conversions

Conversions Part 2

Format	Color
RYB	72, 64, 66
Decimal	4735042
CIELab	28.00, 3.84, 0.03
CIELCh	28, 3.840, 0.404
Yxy	5.4574, 0.3259, 0.3229
Android (android.graphics.Color)	4282925122 (0xFF484042)
YUV	66.6200, -0.3057, 4.7183
Hunter-Lab	23.3610, 1.2087, 1.2877

Details

The CIELCh color **28, 3.840, 0.404** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **30, 3.712, 178.686**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 3.485, 0.015**, and **8, 3.273, 7.156** is the 20% darker color. If you saturate the color by 10%, you get **26, 7.447, 1.423**, and if you desaturate by 10%, it is **30, 0.372, 358.977**.

Distribution



 Red (28%)

 Green (25%)

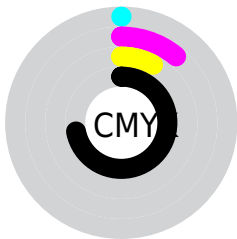
 Blue (26%)



 Red (28%)

 Yellow (25%)

 Blue (26%)



 Cyan (0%)

 Magenta (11%)

 Yellow (8%)

 Black (72%)



 Cyan (72%)

 Magenta (75%)

 Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 3.840, 0.404 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, 3.840, 0.404 by changing the saturation by 10% instead.

■ 28, 3.840, 0.404

■ 28, 3.840, 0.404

■ 100, 3.840, 0.404

■ 18, 3.840, 0.404

■ 48, 3.840, 0.404

■ 8, 3.840, 0.404

■ 58, 3.840, 0.404

■ 0, 3.840, 0.404

■ 68, 3.840, 0.404

■ 78, 3.840, 0.404

■ 88, 3.840, 0.404

■ 98, 3.840, 0.404

■ 28, 3.840, 0.404

■ 28, 3.840, 0.404

■ 26, 7.447, 1.423

■ 30, 0.372, 358.977

■ 23, 11.175, 2.570

■ 33, 2.944, 178.941

■ 21, 14.979, 3.914

■ 35, 6.111, 178.221

■ 19, 18.793, 5.518

■ 38, 9.134, 177.595

■ 17, 22.517, 7.466

■ 40, 12.023,
177.033

■ 16, 26.030, 9.860

■ 43, 14.786,
176.520

■ 14, 29.203, 12.818

■ 13, 32.054, 16.265

■ 45, 17.435,
176.049

■ 12, 34.751, 18.252

■ 47, 19.980,
175.615

■ 50, 22.431,
175.213

Harmonies

Complementary

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



28, 3.840, 0.404



30, 3.712, 178.686

Rectangle

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



28, 3.840, 0.404



28, 3.840, 50.404



28, 3.840, 180.404



28, 3.840, 230.404

Sweetspot

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



28, 3.839, 0.413



39, 1.277, 359.559



28, 5.835, 317.701



19, 0.977, 359.643



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



28, 3.839, 0.413



36, 5.649, 0.650



29, 3.018, 44.916



13, 1.902, 0.168



19, 44.114, 21.771



48, 82.976, 26.311

Inverse Universe

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



28, 3.839, 0.413



36, 5.649, 0.650



29, 2.847, 226.028



13, 1.902, 0.168



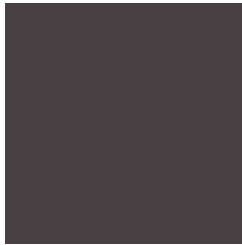
19, 44.114, 21.771



48, 82.976, 26.311

Previews

White Background



This preview shows how the CIELCh color 28, 3.840, 0.404 looks on a white background.

Color Contrast Check

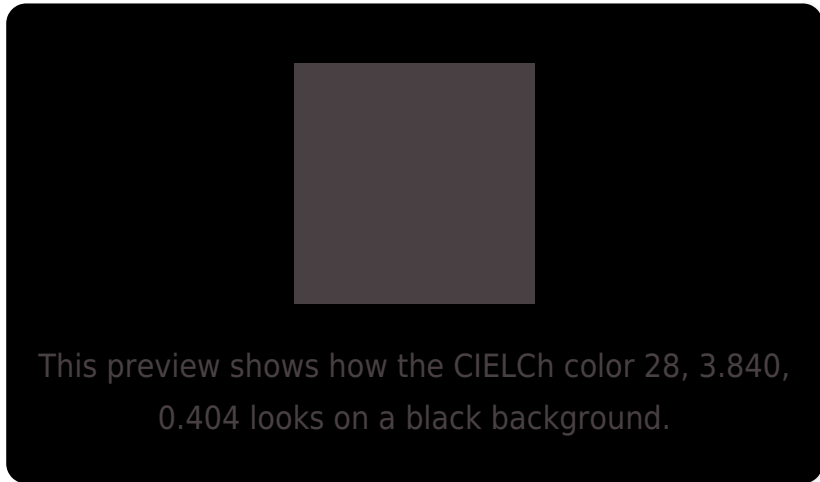
Large Text (above 18pt) WCAG AA ✓ Pass

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

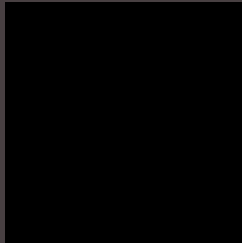
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 3.840, 0.404

Background



This preview shows how black text looks on a background with the CIELCh color 28, 3.840, 0.404.

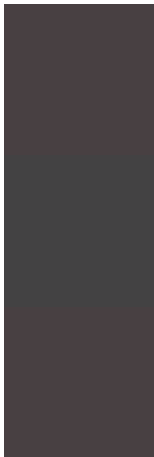


This preview shows how white text looks on a background with the CIELCh color 28, 3.840, 0.404.

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, 3.840, 0.404

Protanopia

28, 0.792, 324.365

Deuteranopia

28, 3.840, 0.404



Tritanopia
28, 4.825, 338.181

Trichromacy



Original Color

28, 3.840, 0.404

Protanomaly

28, 2.216, 343.986

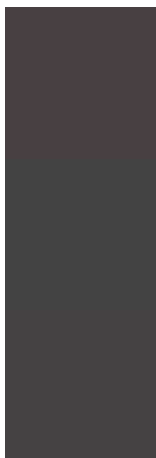
Deuteranomaly

28, 3.840, 0.404

Tritanomaly

28, 4.426, 344.437

Monochromacy



Original Color

28, 3.840, 0.404

Achromatopsia

28, 0.004, 296.813

Achromatomaly

28, 1.493, 353.897

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 3.840, 0.404 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(72, 64, 66)` looks like.

```
.text, #text, p{  
    color:rgb(72, 64, 66)  
}
```

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(72, 64, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 64, 66) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 3.840, 0.404 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(72, 64, 66) }
```

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

```
.border{ border-color:rgb(72, 64, 66) }
```

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

Here you see how a box with a 4 pixel rgb(72, 64, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 64, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 64, 66);  
box-shadow:4px 4px 4px 4px rgb(72, 64, 66)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 3.840, 0.404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 64, 66) }
```

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

```
.background{ background-color: rgb(72, 64,  
66) }
```

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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