

Converting Colors

CIE LCh(28, 4.202, 19.253)

Have a look what the booklet for
CIELCh(28, 4.202, 19.253) contains.

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Color

CIELCh(28, 4.110, 20.056)

Conversions

Conversions Part 1

Format	Color
Hex	494040
RGB	73, 64, 64
RGB Percent	29%, 25%, 25%
CMY	0.7136, 0.7489, 0.7489
CMYK	0.00, 0.12, 0.12, 0.71
HSL	0°, 7%, 27%
HSV	0°, 12%, 29%
XYZ	5.5103, 5.4574, 5.6171
YIQ	66.6910, 5.3640, 1.9080

Conversions

Conversions Part 2

Format	Color
RYB	73, 64, 64
Decimal	4800576
CIELab	28.00, 3.86, 1.41
CIELCh	28, 4.110, 20.056
Yxy	5.4574, 0.3323, 0.3291
Android (android.graphics.Color)	4282990656 (0xFF494040)
YUV	66.6910, -1.3267, 5.5330
Hunter-Lab	23.3610, 1.2223, 2.0967

Details

The CIELCh color $[28, 4.110, 20.056]$ is a dark color, and the websafe version is hex 333333 . A complement of this color would be $[30, 3.832, 198.892]$, and the grayscale version is $[28, 0.004, 296.813]$.

A 20% lighter version of the original color is $[48, 4.125, 19.803]$, and $[8, 3.761, 20.086]$ is the 20% darker color. If you saturate the color by 10%, you get $[26, 7.710, 20.840]$, and if you desaturate by 10%, it is $[30, 0.748, 19.185]$.

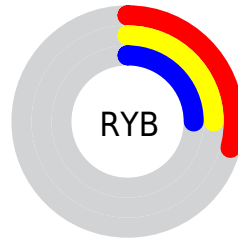
Distribution



Red (29%)

Green (25%)

Blue (25%)



Red (29%)

Yellow (25%)

Blue (25%)

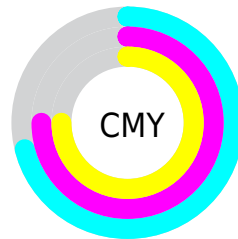


Cyan (0%)

Magenta (12%)

Yellow (12%)

Black (71%)



Cyan (71%)

Magenta (75%)

Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 4.110, 20.056 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, 4.110, 20.056 by changing the saturation by 10% instead.

■ 28, 4.110, 20.056 ■ 28, 4.110, 20.056

■ 100, 4.110, 20.056 ■ 18, 4.110, 20.056

■ 48, 4.110, 20.056 ■ 8, 4.110, 20.056

■ 58, 4.110, 20.056 ■ 0, 4.110, 20.056

■ 68, 4.110, 20.056

■ 78, 4.110, 20.056

■ 88, 4.110, 20.056

■ 98, 4.110, 20.056

■ 28, 4.110, 20.056 ■ 28, 4.110, 20.056

■ 26, 7.710, 20.840 ■ 30, 0.748, 19.185

23, 11.552, 21.789

33, 2.384, 199.183

21, 15.621, 22.987

35, 5.307, 198.737

19, 19.878, 24.509

38, 8.038, 198.407

17, 24.255, 26.434

41, 10.598,
198.140

15, 28.638, 28.778

43, 13.006,
197.921

14, 32.374, 30.050

13, 35.312, 30.370

46, 15.279,
197.739

12, 37.616, 30.298

48, 17.433,
197.585

51, 19.481,
197.455

Harmonies

Complementary

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



28, 4.110, 20.056



30, 3.832, 198.892

Rectangle

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



28, 4.110, 20.056



28, 4.110, 70.056



28, 4.110, 200.056



28, 4.110, 250.056

Sweetspot

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



28, 4.109, 20.069



39, 1.603, 19.443



28, 7.051, 325.027



19, 1.150, 19.489



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, 4.109, 20.069



35, 6.256, 20.305



29, 3.532, 74.027



13, 1.799, 19.801



19, 49.399, 35.627



47, 95.756, 40.001

Inverse Universe

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



30, 3.832, 198.892



39, 5.722, 198.729



29, 3.440, 256.922



14, 1.715, 199.100



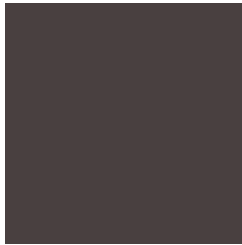
38, 25.117, 196.410



82, 45.879, 196.411

Previews

White Background



This preview shows how the CIELCh color 28, 4.110, 20.056 looks on a white background.

Color Contrast Check

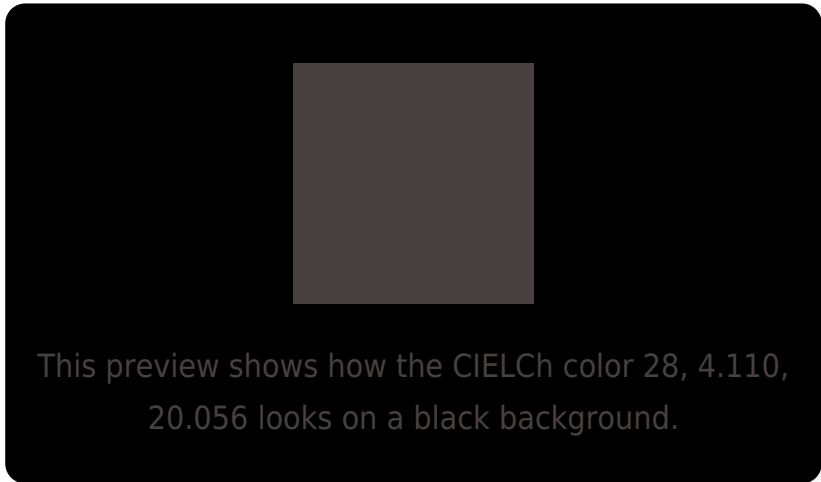
Large Text (above 18pt) WCAG AA ✓ Pass

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

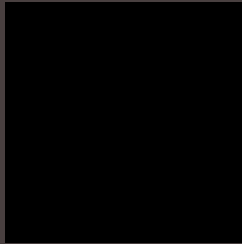
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 4.110, 20.056

Background



This preview shows how black text looks on a background with the CIELCh color 28, 4.110, 20.056.

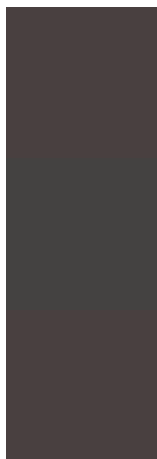


This preview shows how white text looks on a background with the CIELCh color 28, 4.110, 20.056.

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

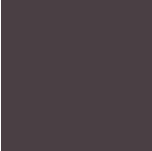
28, 4.110, 20.056

Protanopia

28, 1.099, 55.184

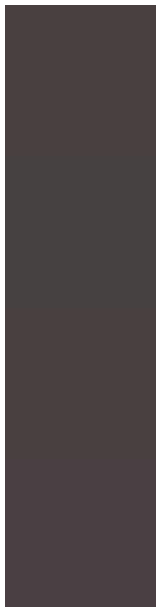
Deuteranopia

28, 4.110, 20.056



Tritanopia
28, 5.906, 347.324

Trichromacy



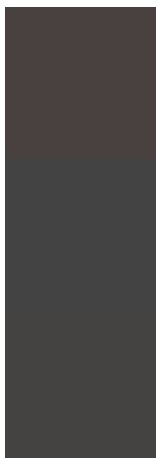
Original Color
28, 4.110, 20.056

Protanomaly
28, 2.258, 19.680

Deuteranomaly
28, 4.110, 20.056

Tritanomaly
28, 5.596, 352.932

Monochromacy



Original Color
28, 4.110, 20.056

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 1.345, 19.445

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 4.110, 20.056 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(73, 64, 64)` looks like.

```
.text, #text, p{  
    color:rgb(73, 64, 64)  
}
```

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(73, 64, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 64, 64) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 4.110, 20.056 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(73, 64, 64) }
```

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

```
.border{ border-color:rgb(73, 64, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 64, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 64, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 64, 64);  
box-shadow:4px 4px 4px 4px rgb(73, 64, 64)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 4.110, 20.056 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 64, 64) }
```

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

```
.background{ background-color: rgb(73, 64,  
64) }
```

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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