

Converting Colors

CIELCh(28, 3.207, 20.864)

Have a look what the booklet for
CIELCh(28, 3.207, 20.864) contains.

CIELCh(28, 3.646, 19.968)	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, 3.646, 19.968)

Conversions

Conversions Part 1

Format	Color
Hex	484040
RGB	72, 64, 64
RGB Percent	28%, 25%, 25%
CMY	0.7166, 0.7480, 0.7480
CMYK	0.00, 0.11, 0.11, 0.72
HSL	0°, 6%, 27%
HSV	0°, 11%, 28%
XYZ	5.4734, 5.4574, 5.6544
YIQ	66.3920, 4.7680, 1.6960

Conversions

Conversions Part 2

Format	Color
RYB	72, 64, 64
Decimal	4735040
CIELab	28.00, 3.43, 1.25
CIELCh	28, 3.646, 19.968
Yxy	5.4574, 0.3300, 0.3291
Android (android.graphics.Color)	4282925120 (0xFF484040)
YUV	66.3920, -1.1793, 4.9182
Hunter-Lab	23.3610, 0.9397, 2.0020

Details

The CIELCh color $[28, 3.646, 19.968]$ is a dark color, and the websafe version is hex 333333 . A complement of this color would be $[30, 3.425, 198.963]$, and the grayscale version is $[28, 0.004, 296.813]$.

A 20% lighter version of the original color is $[48, 3.707, 19.744]$, and $[8, 3.210, 19.801]$ is the 20% darker color. If you saturate the color by 10%, you get $[26, 7.184, 20.737]$, and if you desaturate by 10%, it is $[30, 0.343, 18.705]$.

Distribution



 Red (28%)

 Green (25%)

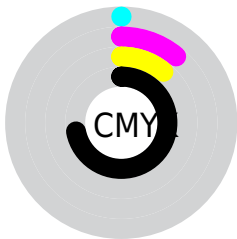
 Blue (25%)



 Red (28%)

 Yellow (25%)

 Blue (25%)



 Cyan (0%)

 Magenta (11%)

 Yellow (11%)

 Black (72%)



 Cyan (72%)

 Magenta (75%)

 Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 3.646, 19.968 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, 3.646, 19.968 by changing the saturation by 10% instead.

 28, 3.646, 19.968  28, 3.646, 19.968

 100, 3.646, 19.968  18, 3.646, 19.968

 48, 3.646, 19.968  8, 3.646, 19.968

 58, 3.646, 19.968  0, 3.646, 19.968

 68, 3.646, 19.968

 78, 3.646, 19.968

 88, 3.646, 19.968

 98, 3.646, 19.968

 28, 3.646, 19.968  28, 3.646, 19.968

 26, 7.184, 20.737  30, 0.343, 18.705

23, 10.963, 21.657

33, 2.736, 199.120

21, 14.968, 22.816

35, 5.608, 198.697

19, 19.167, 24.287

38, 8.294, 198.376

17, 23.495, 26.150

40, 10.814,
198.116

15, 27.854, 28.461

43, 13.184,
197.902

14, 31.656, 29.836

13, 34.614, 30.180

45, 15.423,
197.724

12, 37.270, 30.079

48, 17.545,
197.574

50, 19.565,
197.446

Harmonies

Complementary

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



28, 3.646, 19.968



30, 3.425, 198.963

Rectangle

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



28, 3.646, 19.968



28, 3.646, 69.968



28, 3.646, 199.968



28, 3.646, 249.968

Sweetspot

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



28, 3.645, 19.982



39, 1.198, 19.322



28, 6.279, 324.963



19, 0.917, 19.397



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, 3.645, 19.982



36, 5.382, 20.156



29, 3.139, 74.161



13, 1.799, 19.804



19, 49.399, 35.628



47, 95.755, 40.002

Inverse Universe

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



30, 3.425, 198.963



39, 4.985, 198.836



29, 3.067, 256.767



14, 1.715, 199.104



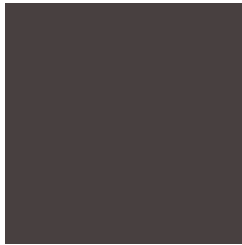
38, 25.115, 196.416



82, 45.876, 196.418

Previews

White Background



This preview shows how the CIELCh color 28, 3.646, 19.968 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, 3.646, 19.968 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

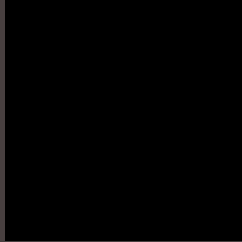
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 3.646, 19.968

Background



This preview shows how black text looks on a background with the CIELCh color 28, 3.646, 19.968.

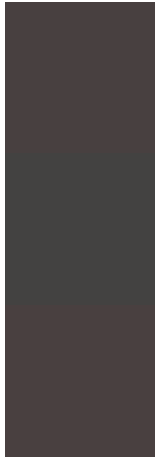


This preview shows how white text looks on a background with the CIELCh color 28, 3.646, 19.968.

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, 3.646, 19.968

Protanopia

28, 0.779, 74.886

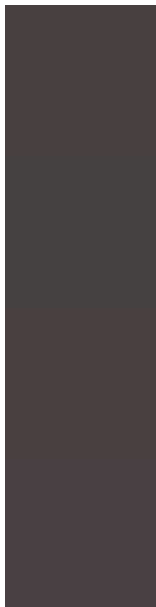
Deuteranopia

28, 4.110, 20.056



Tritanopia
28, 5.164, 341.617

Trichromacy



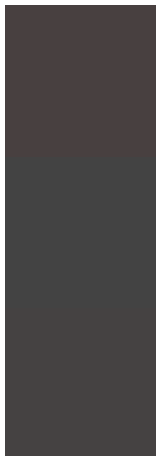
Original Color
28, 3.646, 19.968

Protanomaly
28, 1.802, 19.575

Deuteranomaly
28, 4.110, 20.056

Tritanomaly
28, 4.496, 354.691

Monochromacy



Original Color
28, 3.646, 19.968

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, 3.646, 19.968 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, 64)` looks like.

```
.text, #text, p{  
    color:rgb(72, 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(72, 64, 64) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 28, 3.646, 19.968 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, 64) }
```

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

```
.border{ border-color:rgb(72, 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(72, 64, 64)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 28, 3.646, 19.968 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, 64) }
```

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

```
.background{ background-color: rgb(72, 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](#).

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