

Converting Colors

CIELCh(18, 2.005, 39.224)

Have a look what the booklet for
CIELCh(18, 2.005, 39.224) contains.

CIELCh(18, 2.059, 39.215)	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(18, 2.059, 39.215)

Conversions

Conversions Part 1

Format	Color
Hex	2F2B2A
RGB	47, 43, 42
RGB Percent	18%, 17%, 16%
CMY	0.8150, 0.8307, 0.8346
CMYK	0.00, 0.08, 0.11, 0.81
HSL	12°, 6%, 18%
HSV	12°, 11%, 19%
XYZ	2.4723, 2.5180, 2.5631
YIQ	44.0820, 2.7050, 0.5370

Conversions

Conversions Part 2

Format	Color
RYB	47, 43, 42
Decimal	3091242
CIELab	18.00, 1.60, 1.30
CIElCh	18, 2.059, 39.215
Yxy	2.5180, 0.3273, 0.3334
Android (android.graphics.Color)	4281281322 (0xFF2F2B2A)
YUV	44.0820, -1.0264, 2.5591
Hunter-Lab	15.8683, 0.0412, 1.5312

Details

The CIELCh color **18, 2.059, 39.215** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 1.951, 219.847**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 2.229, 35.516**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **17, 4.138, 39.193**, and if you desaturate by 10%, it is **19, 0.113, 37.726**.

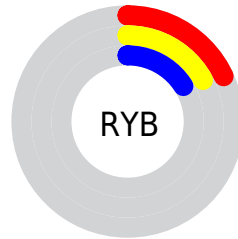
Distribution



Red (18%)

Green (17%)

Blue (16%)



Red (18%)

Yellow (17%)

Blue (16%)

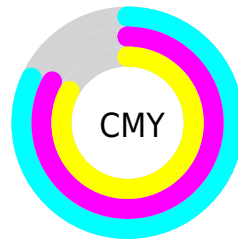


Cyan (0%)

Magenta (8%)

Yellow (11%)

Black (81%)



Cyan (82%)

Magenta (83%)

Yellow (83%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 2.059, 39.215 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 18, 2.059, 39.215 by changing the saturation by 10% instead.

 18, 2.059, 39.215  18, 2.059, 39.215

 100, 2.059, 39.215  8, 2.059, 39.215

 38, 2.059, 39.215  0, 2.059, 39.215

 48, 2.059, 39.215

 58, 2.059, 39.215

 68, 2.059, 39.215

 78, 2.059, 39.215

 88, 2.059, 39.215

 98, 2.059, 39.215

 18, 2.059, 39.215  18, 2.059, 39.215

17, 4.138, 39.193	19, 0.113, 37.726
15, 6.360, 39.197	21, 1.711, 219.818
14, 8.734, 39.293	22, 3.423, 220.005
13, 11.262, 39.507	24, 5.035, 220.261
11, 13.803, 39.167	25, 6.557, 220.548
10, 16.066, 37.364	27, 7.999, 220.852
9, 18.080, 34.793	28, 9.367, 221.167
8, 19.988, 32.716	29, 10.671, 221.489
7, 21.651, 31.754	31, 11.917, 221.813

Harmonies

Complementary

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



18, 2.059, 39.215



19, 1.951, 219.847

Rectangle

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



18, 2.059, 39.215



18, 2.059, 89.215



18, 2.059, 219.215



18, 2.059, 269.215

Sweetspot

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



18, 2.059, 39.238



25, 0.707, 39.114



18, 3.656, 331.038



11, 0.524, 39.145



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



18, 2.059, 39.238



24, 3.174, 39.224



19, 2.498, 92.608



7, 0.946, 38.550



18, 40.743, 40.944



47, 87.276, 43.272

Inverse Universe

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



19, 1.951, 219.847



25, 2.957, 219.916



18, 2.506, 274.840



7, 0.939, 220.471



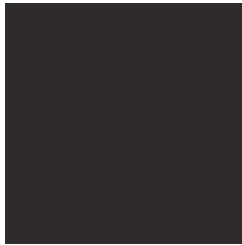
27, 19.906, 232.376



65, 38.562, 236.037

Previews

White Background



This preview shows how the CIELCh color 18, 2.059, 39.215 looks on a white background.

Color Contrast Check

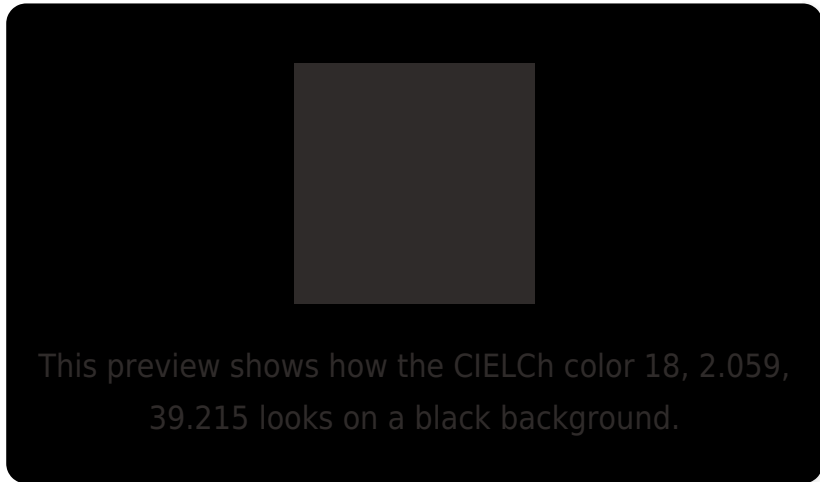
Large Text (above 18pt) WCAG AA ✓ Pass

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

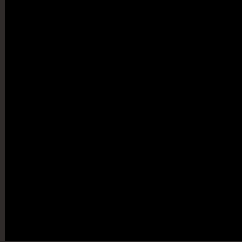
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

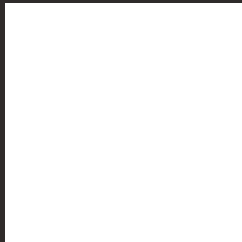
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 18, 2.059, 39.215

Background



This preview shows how black text looks on a background with the CIELCh color 18, 2.059, 39.215.

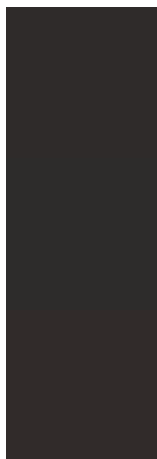


This preview shows how white text looks on a background with the CIELCh color 18, 2.059, 39.215.

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

18, 2.059, 39.215

Protanopia

18, 0.833, 74.827

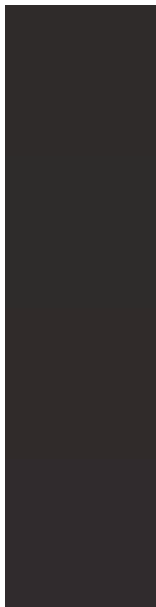
Deuteranopia

18, 3.012, 33.113



Tritanopia
18, 3.159, 339.236

Trichromacy



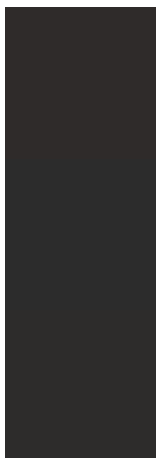
Original Color
18, 2.059, 39.215

Protanomaly
18, 1.177, 55.127

Deuteranomaly
18, 2.531, 35.577

Tritanomaly
18, 2.765, 350.133

Monochromacy



Original Color
18, 2.059, 39.215

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 0.833, 74.827

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 18, 2.059, 39.215 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(47, 43, 42)` looks like.

```
.text, #text, p{  
    color:rgb(47, 43, 42)  
}
```

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(47, 43, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 43, 42) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 2.059, 39.215 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(47, 43, 42) }
```

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

```
.border{ border-color:rgb(47, 43, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 43, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 43, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 43, 42);  
box-shadow:4px 4px 4px 4px rgb(47, 43, 42)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 2.059, 39.215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 43, 42) }
```

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

```
.background{ background-color: rgb(47, 43,  
42) }
```

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