

Converting Colors

CIELCh(19, 3.137, 109.406)

Have a look what the booklet for
CIELCh(19, 3.137, 109.406) contains.

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Color

CIELCh(19, 2.733, 109.489)

Conversions

Conversions Part 1

Format	Color
Hex	2E2E2A
RGB	46, 46, 42
RGB Percent	18%, 18%, 16%
CMY	0.8180, 0.8180, 0.8337
CMYK	0.00, 0.00, 0.09, 0.82
HSL	60°, 5%, 17%
HSV	60°, 9%, 18%
XYZ	2.5637, 2.7468, 2.6239
YIQ	45.5440, 1.2840, -1.2440

Conversions

Conversions Part 2

Format	Color
RYB	42, 46, 42
Decimal	3026474
CIELab	19.00, -0.91, 2.58
CIElCh	19, 2.733, 109.489
Yxy	2.7468, 0.3231, 0.3462
Android (android.graphics.Color)	4281216554 (0xFF2E2E2A)
YUV	45.5440, -1.7472, 0.3999
Hunter-Lab	16.5735, -1.3920, 2.2149

Details

The CIELCh color **19, 2.733, 109.489** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **17, 2.782, 290.905**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 3.049, 109.686**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 5.893, 108.712**, and if you desaturate by 10%, it is **19, 0.438, 290.345**.

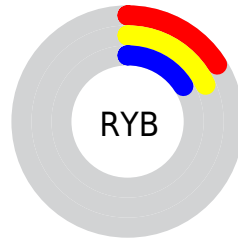
Distribution



Red (18%)

Green (18%)

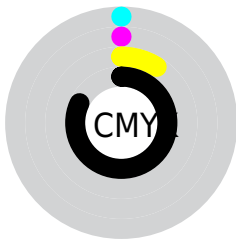
Blue (16%)



Red (16%)

Yellow (18%)

Blue (16%)

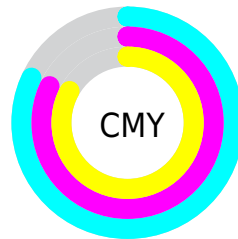


Cyan (0%)

Magenta (0%)

Yellow (9%)

Black (82%)



Cyan (82%)

Magenta (82%)

Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 2.733, 109.489 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 19, 2.733, 109.489 by changing the saturation by 10% instead.

■ 19, 2.733, 109.489

■ 19, 2.733, 109.489

■ 100, 2.733,
109.489

■ 9, 2.733, 109.489

■ 39, 2.733, 109.489

■ 0, 2.733, 109.489

■ 49, 2.733, 109.489

■ 59, 2.733, 109.489

■ 69, 2.733, 109.489

■ 79, 2.733, 109.489

■ 89, 2.733, 109.489

■ 99, 2.733, 109.489

■ 19, 2.733, 109.489

■ 19, 2.733, 109.489

■ 19, 5.893, 108.712

■ 19, 0.438, 290.345

■ 19, 9.026, 107.919

■ 19, 3.613, 291.065

■ 19, 12.115,
107.133

■ 19, 6.785, 291.810

■ 20, 9.949, 292.534

■ 19, 15.133,
106.363

■ 20, 13.101,
293.232

■ 18, 18.042,
105.626

■ 20, 16.238,
293.902

■ 18, 20.683,
105.013

■ 20, 19.357,
294.544

■ 18, 22.797,
104.635

■ 21, 22.457,
295.156

■ 18, 24.666,
104.364

■ 21, 25.535,
295.739

■ 18, 26.537,
104.139

Harmonies

Complementary

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



19, 2.733, 109.489



17, 2.782, 290.905

Rectangle

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



19, 2.733, 109.489



19, 2.733, 159.489



19, 2.733, 289.489



19, 2.733, 339.489

Sweetspot

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



19, 2.734, 109.500



26, 1.197, 109.914



18, 1.938, 19.740



12, 0.886, 109.886



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



19, 2.734, 109.500



26, 3.997, 109.347



19, 2.911, 128.774



8, 1.615, 110.175



36, 44.162, 102.862



83, 84.962, 102.863

Inverse Universe

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



17, 2.782, 290.905



23, 4.080, 291.078



18, 2.944, 309.366



7, 1.619, 290.192



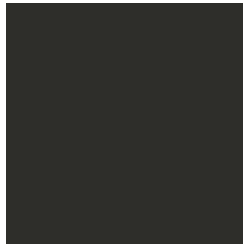
6, 60.349, 305.916



26, 117.317, 306.288

Previews

White Background



This preview shows how the CIELCh color 19, 2.733, 109.489 looks on a white background.

Color Contrast Check

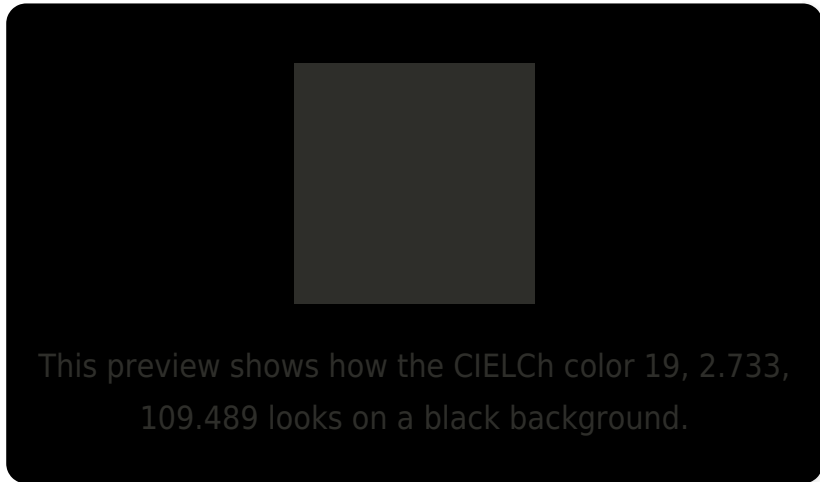
Large Text (above 18pt) WCAG AA ✓ Pass

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

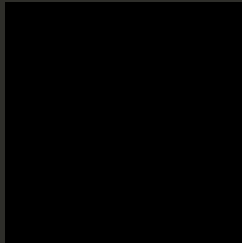
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

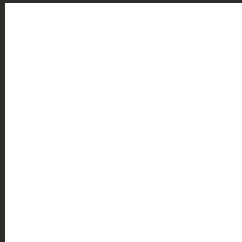
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 2.733, 109.489

Background



This preview shows how black text looks on a background with the CIELCh color 19, 2.733, 109.489.



This preview shows how white text looks on a background with the CIELCh color 19, 2.733, 109.489.

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

19, 2.733, 109.489

Protanopia

19, 2.895, 89.815

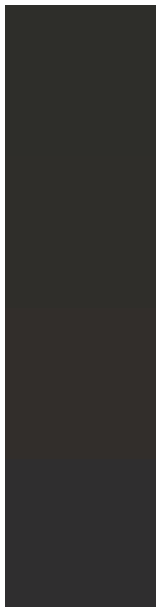
Deuteranopia

19, 3.692, 41.633



Tritanopia
19, 2.914, 309.352

Trichromacy



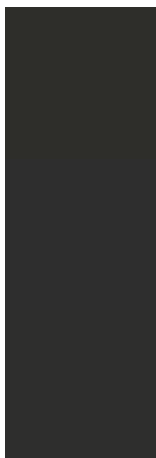
Original Color
19, 2.733, 109.489

Protanomaly
19, 2.771, 99.396

Deuteranomaly
19, 2.821, 65.985

Tritanomaly
19, 0.838, 324.425

Monochromacy



Original Color
19, 2.733, 109.489

Achromatopsia
19, 0.004, 296.813

Achromatomaly
19, 0.681, 109.975

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 2.733, 109.489 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(46, 46, 42)` looks like.

```
.text, #text, p{  
    color:rgb(46, 46, 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(46, 46, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 46, 42) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 2.733, 109.489 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(46, 46, 42) }
```

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

```
.border{ border-color:rgb(46, 46, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 46, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 46, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 46, 42);  
box-shadow:4px 4px 4px 4px rgb(46, 46, 42)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 2.733, 109.489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 46, 42) }
```

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

```
.background{ background-color: rgb(46, 46,  
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](#).

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