

Converting Colors

CIELCh(22, 2.538, 23.521)

Have a look what the booklet for
CIELCh(22, 2.538, 23.521) contains.

CIELCh(22, 2.831, 19.896)	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(22, 2.831, 19.896)

Conversions

Conversions Part 1

Format	Color
Hex	393333
RGB	57, 51, 51
RGB Percent	22%, 20%, 20%
CMY	0.7752, 0.7988, 0.7988
CMYK	0.00, 0.10, 0.10, 0.78
HSL	0°, 6%, 21%
HSV	0°, 10%, 22%
XYZ	3.5069, 3.5154, 3.6613
YIQ	52.7940, 3.5760, 1.2720

Conversions

Conversions Part 2

Format	Color
R _Y B	57, 51, 51
Decimal	3748659
CIE Lab	22.00, 2.66, 0.96
CIE LCh	22, 2.831, 19.896
Yxy	3.5154, 0.3282, 0.3290
Android (android.graphics.Color)	4281938739 (0xFF393333)
YUV	52.7940, -0.8844, 3.6887
Hunter-Lab	18.7494, 0.5749, 1.5467

Details

The CIELCh color **22, 2.831, 19.896** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **24, 2.675, 199.021**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 2.953, 19.679**, and **2, 2.625, 19.396** is the 20% darker color. If you saturate the color by 10%, you get **20, 5.721, 20.622**, and if you desaturate by 10%, it is **24, 0.125, 17.627**.

Distribution



Red (22%)

Green (20%)

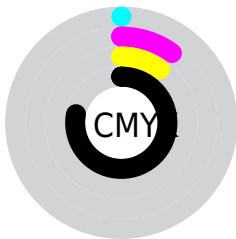
Blue (20%)



Red (22%)

Yellow (20%)

Blue (20%)



Cyan (0%)

Magenta (10%)

Yellow (10%)

Black (78%)



Cyan (78%)

Magenta (80%)

Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 2.831, 19.896 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 22, 2.831, 19.896 by changing the saturation by 10% instead.

■ 22, 2.831, 19.896 ■ 22, 2.831, 19.896

■ 100, 2.831, 19.896 ■ 12, 2.831, 19.896

■ 42, 2.831, 19.896 ■ 2, 2.831, 19.896

■ 52, 2.831, 19.896 ■ 0, 2.831, 19.896

■ 62, 2.831, 19.896

■ 72, 2.831, 19.896

■ 82, 2.831, 19.896

■ 92, 2.831, 19.896

■ 22, 2.831, 19.896 ■ 22, 2.831, 19.896

■ 20, 5.721, 20.622 ■ 24, 0.125, 17.627

18, 8.802, 21.473	26, 2.403, 199.111
16, 12.066, 22.533	28, 4.770, 198.706
14, 15.490, 23.864	30, 6.988, 198.395
13, 19.032, 25.535	32, 9.074, 198.142
11, 22.401, 26.488	34, 11.041, 197.933
10, 25.253, 26.254	36, 12.902, 197.757
9, 27.777, 25.517	38, 14.669, 197.607
8, 30.406, 24.384	40, 16.352, 197.480

Harmonies

Complementary

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



22, 2.831, 19.896



24, 2.675, 199.021

Rectangle

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



22, 2.831, 19.896



22, 2.831, 69.896



22, 2.831, 199.896



22, 2.831, 249.896

Sweetspot

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



22, 2.830, 19.912



31, 0.978, 19.309



22, 4.891, 324.911



15, 0.750, 19.374



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



22, 2.830, 19.912



28, 4.391, 20.125



23, 2.441, 74.267



9, 1.458, 19.762



17, 46.055, 34.466



46, 93.315, 40.002

Inverse Universe

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



24, 2.675, 199.021



31, 4.078, 198.862



23, 2.391, 256.644



10, 1.395, 199.143



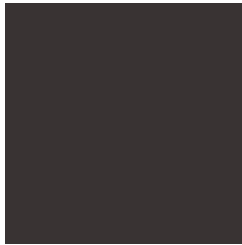
35, 23.750, 196.419



80, 44.705, 196.422

Previews

White Background



This preview shows how the CIELCh color 22, 2.831, 19.896 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 22, 2.831, 19.896 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

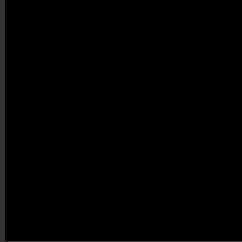
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 2.831, 19.896

Background



This preview shows how black text looks on a background with the CIELCh color 22, 2.831, 19.896.

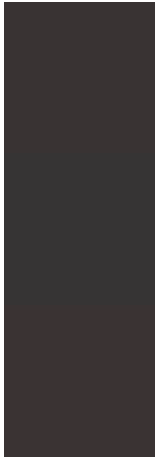


This preview shows how white text looks on a background with the CIELCh color 22, 2.831, 19.896.

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

22, 2.831, 19.896

Protanopia

22, 0.930, 19.357

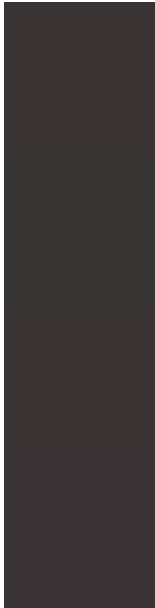
Deuteranopia

22, 3.312, 20.003



Tritanopia
22, 4.215, 340.766

Trichromacy



Original Color

22, 2.831, 19.896

Protanomaly

22, 1.400, 19.527

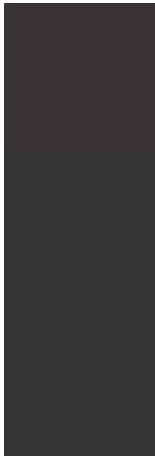
Deuteranomaly

22, 3.312, 20.003

Tritanomaly

22, 3.834, 348.568

Monochromacy



Original Color

22, 2.831, 19.896

Achromatopsia

22, 0.004, 296.813

Achromatomaly

22, 1.400, 19.527

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 2.831, 19.896 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(57, 51, 51)` looks like.

```
.text, #text, p{  
    color:rgb(57, 51, 51)  
}
```

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(57, 51, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 51, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 2.831, 19.896 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(57, 51, 51) }
```

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

```
.border{ border-color:rgb(57, 51, 51) }
```

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

Here you see how a box with a 4 pixel rgb(57, 51, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 51, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 51, 51);  
box-shadow:4px 4px 4px 4px rgb(57, 51, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 2.831, 19.896 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 51, 51) }
```

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

```
.background{ background-color: rgb(57, 51,  
51) }
```

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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