

Converting Colors

CIELCh(28, 12.239, 12.377)

Have a look what the booklet for
CIELCh(28, 12.239, 12.377) contains.

CIELCh(28, 12.289, 12.772)	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, 12.289, 12.772)

Conversions

Conversions Part 1

Format	Color
Hex	553B3E
RGB	85, 59, 62
RGB Percent	33%, 23%, 24%
CMY	0.6654, 0.7674, 0.7557
CMYK	0.00, 0.30, 0.27, 0.67
HSL	353°, 18%, 28%
HSV	353°, 30%, 33%
XYZ	6.2339, 5.4574, 5.3263
YIQ	67.1160, 14.5330, 6.4450

Conversions

Conversions Part 2

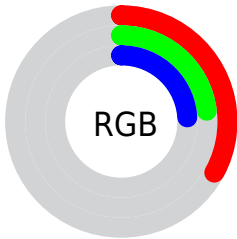
Format	Color
R_{YB}	85, 59, 62
Decimal	5585726
CIE _{Lab}	28.00, 11.98, 2.72
CIE _{LCh}	28, 12.289, 12.772
Yxy	5.4574, 0.3663, 0.3207
Android (android.graphics.Color)	4283775806 (0xFF553B3E)
YUV	67.1160, -2.5222, 15.6843
Hunter-Lab	23.3610, 6.7509, 2.8345

Details

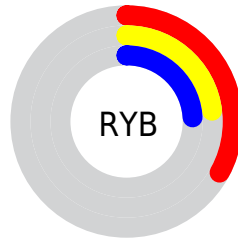
The CIELCh color **28, 12.289, 12.772** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **34, 10.609, 187.686**, and the grayscale version is **29, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 12.348, 12.788**, and **8, 12.203, 12.886** is the 20% darker color. If you saturate the color by 10%, you get **25, 16.721, 14.152**, and if you desaturate by 10%, it is **31, 8.036, 11.641**.

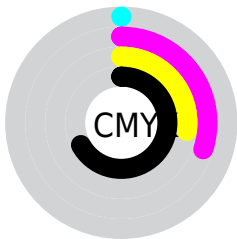
Distribution



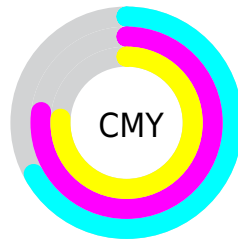
- Red (33%)
- Green (23%)
- Blue (24%)



- Red (33%)
- Yellow (23%)
- Blue (24%)



- Cyan (0%)
- Magenta (30%)
- Yellow (27%)
- Black (67%)



- Cyan (67%)
- Magenta (77%)
- Yellow (76%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 12.289, 12.772 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, 12.289, 12.772 by changing the saturation by 10% instead.

■ 28, 12.289, 12.772

■ 28, 12.289, 12.772

■ 100, 12.289,
12.772

■ 18, 12.289, 12.772

■ 48, 12.289, 12.772

■ 8, 12.289, 12.772

■ 58, 12.289, 12.772

■ 0, 12.289, 12.772

■ 68, 12.289, 12.772

■ 78, 12.289, 12.772

■ 88, 12.289, 12.772

■ 98, 12.289, 12.772

■ 28, 12.289, 12.772

■ 28, 12.289, 12.772

25, 16.721, 14.152

31, 8.036, 11.641

23, 21.273, 15.848

33, 3.998, 10.672

21, 25.851, 17.958

36, 0.184, 8.393

19, 30.329, 20.589

39, 3.409, 189.369

17, 34.573, 23.827

42, 6.793, 188.744

16, 38.358, 27.259

45, 9.984, 188.221

15, 41.469, 28.566

47, 12.999,
187.763

50, 15.856,
187.357

53, 18.570,
186.992

Harmonies

Complementary

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



28, 12.289, 12.772



34, 10.609, 187.686

Rectangle

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



28, 12.289, 12.772



28, 12.289, 62.772



28, 12.289, 192.772



28, 12.289, 242.772

Sweetspot

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



28, 12.288, 12.776



44, 4.283, 10.563



28, 19.299, 322.565



21, 2.952, 10.649



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



28, 12.288, 12.776



35, 19.053, 13.825



31, 10.006, 59.208



16, 2.150, 10.515



21, 50.126, 31.805



49, 93.008, 35.755

Inverse Universe

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



28, 12.288, 12.776



35, 19.053, 13.825



31, 8.760, 245.511



16, 2.150, 10.515



21, 50.126, 31.805



49, 93.008, 35.755

Previews

White Background



This preview shows how the CIELCh color 28, 12.289, 12.772 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 CIELCh color 28, 12.289, 12.772 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

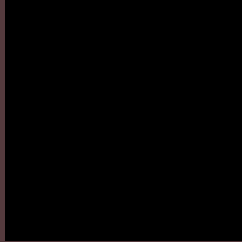
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 12.289, 12.772

Background



This preview shows how black text looks on a background with the CIELCh color 28, 12.289, 12.772.

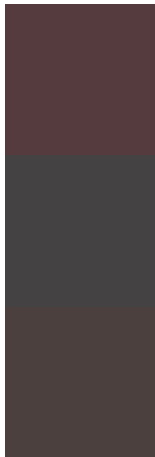


This preview shows how white text looks on a background with the CIELCh color 28, 12.289, 12.772.

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, 12.289, 12.772

Protanopia

28, 0.894, 19.275

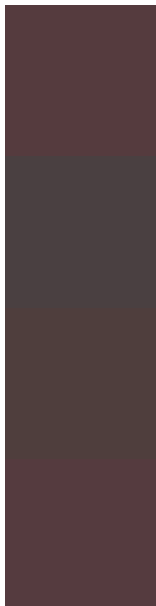
Deuteranopia

28, 5.482, 40.724



Tritanopia
28, 12.419, 6.886

Trichromacy



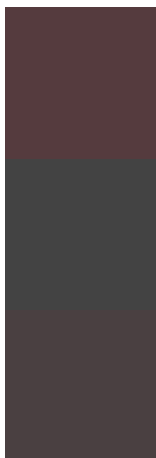
Original Color
28, 12.289, 12.772

Protanomaly
28, 4.599, 12.131

Deuteranomaly
28, 7.994, 25.357

Tritanomaly
28, 12.336, 9.813

Monochromacy



Original Color
28, 12.289, 12.772

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 4.599, 12.131

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 12.289, 12.772 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(85, 59, 62)` looks like.

```
.text, #text, p{  
    color:rgb(85, 59, 62)  
}
```

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(85, 59, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 59, 62) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 12.289, 12.772 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(85, 59, 62) }
```

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

```
.border{ border-color:rgb(85, 59, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 59, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 59, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 59, 62);  
box-shadow:4px 4px 4px 4px rgb(85, 59, 62)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 12.289, 12.772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 59, 62) }
```

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

```
.background{ background-color: rgb(85, 59,  
62) }
```

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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