

Converting Colors

CIELCh(28, 56.233, 22.684)

Have a look what the booklet for
CIELCh(28, 56.233, 22.684) contains.

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Color

CIELCh(28, 56.161, 23.059)

Conversions

Conversions Part 1

Format	Color
Hex	890024
RGB	137, 0, 36
RGB Percent	54%, 0%, 14%
CMY	0.4611, 1.0000, 0.8604
CMYK	0.00, 1.00, 0.74, 0.46
HSL	344°, 100%, 27%
HSV	344°, 100%, 54%
XYZ	10.6870, 5.4574, 2.1271
YIQ	45.0670, 70.0960, 40.2400

Conversions

Conversions Part 2

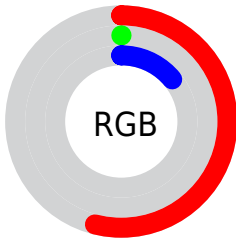
Format	Color
R_{YB}	137, 0, 36
Decimal	8978468
CIE _{Lab}	28.00, 51.67, 22.00
CIE _{LCh}	28, 56.161, 23.059
Yxy	5.4574, 0.5849, 0.2987
Android (android.graphics.Color)	4287168548 (0xFF890024)
YUV	45.0670, -4.4700, 80.6252
Hunter-Lab	23.3610, 40.7770, 10.9541

Details

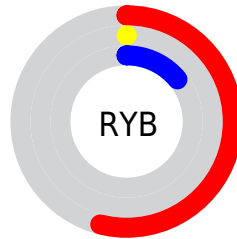
The CIELCh color **28, 56.161, 23.059** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **51, 42.013, 165.819**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 55.752, 23.160**, and **14, 40.336, 31.871** is the 20% darker color. If you saturate the color by 10%, you get **28, 56.034, 23.191**, and if you desaturate by 10%, it is **29, 52.371, 18.392**.

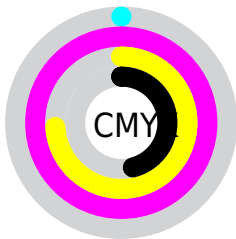
Distribution



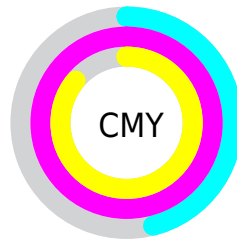
- Red (54%)
- Green (0%)
- Blue (14%)



- Red (54%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (74%)
- Black (46%)



- Cyan (46%)
- Magenta (100%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 56.161, 23.059 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, 56.161, 23.059 by changing the saturation by 10% instead.

 28, 56.161, 23.059

 28, 56.161, 23.059

 100, 56.161,
23.059

 18, 56.161, 23.059

 48, 56.161, 23.059

 8, 56.161, 23.059

 58, 56.161, 23.059

 0, 56.161, 23.059

 68, 56.161, 23.059

 78, 56.161, 23.059

 88, 56.161, 23.059

 98, 56.161, 23.059

 28, 56.161, 23.059

 28, 56.161, 23.059

28, 56.034, 23.191

29, 52.371, 18.392

31, 48.276, 14.013

33, 43.311, 10.466

35, 37.602, 7.643

38, 31.391, 5.392

42, 24.935, 3.573

45, 18.446, 2.077

49, 12.074, 0.819

53, 5.911, 359.723

Harmonies

Complementary

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



28, 56.161, 23.059



51, 42.013, 165.819

Rectangle

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



28, 56.161, 23.059



28, 56.161, 73.059



28, 56.161, 203.059



28, 56.161, 253.059

Sweetspot

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



28, 56.034, 23.191



58, 22.861, 2.167



25, 75.087, 318.647



28, 15.622, 2.685



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



28, 56.034, 23.191



37, 68.488, 24.553



30, 60.811, 44.935



27, 3.335, 359.634



27, 54.533, 22.978



0, 1.518, 358.857

Inverse Universe

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



28, 56.034, 23.191



37, 68.488, 24.553



41, 28.269, 241.573



27, 3.335, 359.634



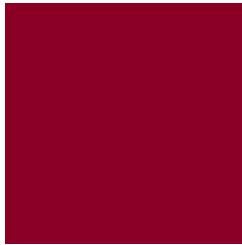
27, 54.533, 22.978



0, 1.518, 358.857

Previews

White Background



This preview shows how the CIELCh color 28, 56.161, 23.059 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, 56.161, 23.059 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, 56.161, 23.059

Background



This preview shows how black text looks on a background with the CIELCh color 28, 56.161, 23.059.



This preview shows how white text looks on a background with the CIELCh color 28, 56.161, 23.059.

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, 55.796, 22.853

Protanopia

30, 11.083, 95.578

Deuteranopia

29, 26.457, 80.770



Tritanopia
29, 60.894, 37.959

Trichromacy



Original Color
28, 55.796, 22.853

Protanomaly
26, 26.176, 22.518

Deuteranomaly
26, 34.557, 37.521

Tritanomaly
28, 59.034, 33.648

Monochromacy



Original Color
28, 55.796, 22.853

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 25.152, 7.379

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 56.161, 23.059 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(137, 0, 36)` looks like.

```
.text, #text, p{  
    color:rgb(137, 0, 36)  
}
```

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(137, 0, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 0, 36) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 56.161, 23.059 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(137, 0, 36) }
```

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

```
.border{ border-color:rgb(137, 0, 36) }
```

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

Here you see how a box with a 4 pixel rgb(137, 0, 36) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 0, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 0, 36);  
box-shadow:4px 4px 4px 4px rgb(137, 0, 36)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 56.161, 23.059 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 0, 36) }
```

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

```
.background{ background-color: rgb(137, 0,  
36) }
```

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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