

Converting Colors

CIELCh(25, 63.457, 18.578)

Have a look what the booklet for
CIELCh(25, 63.457, 18.578) contains.

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Color

CIELCh(28, 56.455, 24.704)

Conversions

Conversions Part 1

Format	Color
Hex	890021
RGB	137, 0, 33
RGB Percent	54%, 0%, 13%
CMY	0.4618, 0.9984, 0.8700
CMYK	0.00, 1.00, 0.76, 0.46
HSL	346°, 99%, 27%
HSV	346°, 100%, 54%
XYZ	10.6359, 5.4574, 1.9434
YIQ	44.7250, 71.0590, 39.3070

Conversions

Conversions Part 2

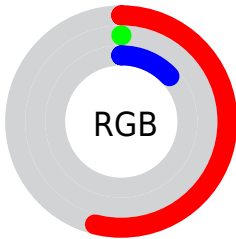
Format	Color
R_YB	137, 0, 33
Decimal	8978465
CIE _{Lab}	28.00, 51.29, 23.59
CIE _{LCh}	28, 56.455, 24.704
Yxy	5.4574, 0.5897, 0.3026
Android (android.graphics.Color)	4287168545 (0xFF890021)
YUV	44.7250, -5.7804, 80.9252
Hunter-Lab	23.3610, 40.3862, 11.4203

Details

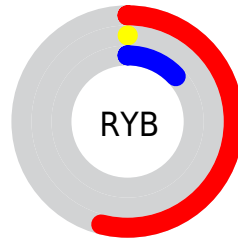
The CIELCh color **28, 56.455, 24.704** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **51, 40.889, 167.626**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 56.267, 24.860**, and **14, 40.336, 31.871** is the 20% darker color. If you saturate the color by 10%, you get **28, 56.576, 24.840**, and if you desaturate by 10%, it is **29, 52.583, 19.900**.

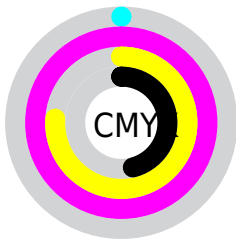
Distribution



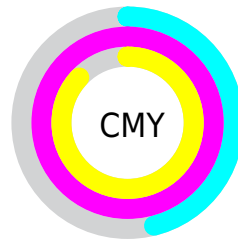
- Red (54%)
- Green (0%)
- Blue (13%)



- Red (54%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (76%)
- Black (46%)



- Cyan (46%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 56.455, 24.704 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, 56.455, 24.704 by changing the saturation by 10% instead.

■ 28, 56.455, 24.704

■ 28, 56.455, 24.704

■ 100, 56.455,
24.704

■ 18, 56.455, 24.704

■ 48, 56.455, 24.704

■ 8, 56.455, 24.704

■ 58, 56.455, 24.704

■ 0, 56.455, 24.704

■ 68, 56.455, 24.704

■ 78, 56.455, 24.704

■ 88, 56.455, 24.704

■ 98, 56.455, 24.704

■ 28, 56.455, 24.704

■ 28, 56.455, 24.704

28, 56.576, 24.840

29, 52.583, 19.900

30, 48.280, 15.503

33, 43.159, 11.928

35, 37.345, 9.079

38, 31.076, 6.809

42, 24.601, 4.979

45, 18.123, 3.478

49, 11.786, 2.219

53, 5.675, 1.125

Harmonies

Complementary

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



28, 56.455, 24.704



51, 40.889, 167.626

Rectangle

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



28, 56.455, 24.704



28, 56.455, 74.704



28, 56.455, 204.704



28, 56.455, 254.704

Sweetspot

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



28, 56.453, 24.706



58, 22.728, 3.610



26, 74.711, 319.200



28, 15.539, 4.132



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, 56.453, 24.706



37, 69.281, 26.201



31, 60.131, 45.641



27, 3.306, 1.068



27, 55.110, 24.636



0, 1.504, 0.295

Inverse Universe

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



28, 56.453, 24.706



37, 69.281, 26.201



40, 28.640, 244.888



27, 3.306, 1.068



27, 55.110, 24.636



0, 1.504, 0.295

Previews

White Background



This preview shows how the CIELCh color 28, 56.455, 24.704 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, 56.455, 24.704 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, 56.455, 24.704

Background



This preview shows how black text looks on a background with the CIELCh color 28, 56.455, 24.704.



This preview shows how white text looks on a background with the CIELCh color 28, 56.455, 24.704.

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, 56.455, 24.704

Protanopia

30, 12.938, 96.905

Deuteranopia

29, 28.013, 81.754



Tritanopia
29, 61.491, 38.408

Trichromacy



Original Color
28, 56.455, 24.704

Protanomaly
26, 26.681, 26.557

Deuteranomaly
26, 35.558, 40.050

Tritanomaly
28, 59.720, 34.427

Monochromacy



Original Color
28, 56.455, 24.704

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 25.124, 8.913

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 56.455, 24.704 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, 33)` looks like.

```
.text, #text, p{  
  color:rgb(137, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 0, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 56.455, 24.704 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, 33) }
```

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

```
.border{ border-color:rgb(137, 0, 33) }
```

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, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(137, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 56.455, 24.704 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, 33) }
```

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

```
.background{ background-color: rgb(137, 0,  
33) }
```

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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