

Converting Colors

CIELCh(13, 61.202, 12.848)

Have a look what the booklet for
CIELCh(13, 61.202, 12.848) contains.

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Color

CIELCh(19, 45.934, 27.292)

Conversions

Conversions Part 1

Format	Color
Hex	640012
RGB	100, 0, 18
RGB Percent	39%, 0%, 7%
CMY	0.6081, 1.0000, 0.9296
CMYK	0.00, 1.00, 0.82, 0.61
HSL	349°, 100%, 20%
HSV	349°, 100%, 39%
XYZ	5.3552, 2.7468, 0.8178
YIQ	31.9520, 53.8220, 26.7980

Conversions

Conversions Part 2

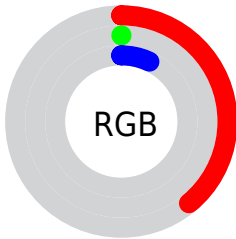
Format	Color
R_YB	100, 0, 18
Decimal	6553618
CIE Lab	19.00, 40.82, 21.06
CIE LCh	19, 45.934, 27.292
Yxy	2.7468, 0.6004, 0.3079
Android (android.graphics.Color)	4284743698 (0xFF640012)
YUV	31.9520, -6.8783, 59.6781
Hunter-Lab	16.5735, 28.6731, 8.6760

Details

The CIELCh color **19, 45.934, 27.292** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **37, 30.084, 174.059**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 45.951, 27.103**, and **6, 25.161, 19.052** is the 20% darker color. If you saturate the color by 10%, you get **19, 45.918, 27.314**, and if you desaturate by 10%, it is **20, 42.070, 23.456**.

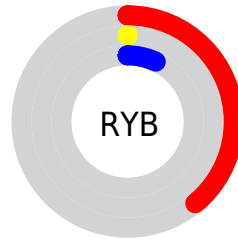
Distribution



Red (39%)

Green (0%)

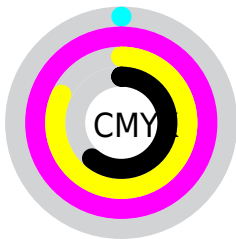
Blue (7%)



Red (39%)

Yellow (0%)

Blue (7%)

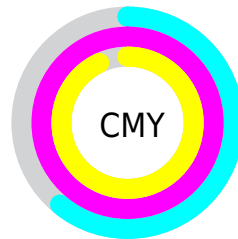


Cyan (0%)

Magenta (100%)

Yellow (82%)

Black (61%)



Cyan (61%)

Magenta (100%)

Yellow (93%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 45.934, 27.292 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, 45.934, 27.292 by changing the saturation by 10% instead.

 19, 45.934, 27.292

 19, 45.934, 27.292

 100, 45.934,
27.292

 9, 45.934, 27.292

 39, 45.934, 27.292

 0, 45.934, 27.292

 49, 45.934, 27.292

 59, 45.934, 27.292

 69, 45.934, 27.292

 79, 45.934, 27.292

 89, 45.934, 27.292

 99, 45.934, 27.292

■ 19, 45.934, 27.292

■ 19, 45.934, 27.292

■ 19, 45.918, 27.314

■ 20, 42.070, 23.456

■ 21, 38.164, 19.352

■ 23, 33.759, 15.968

■ 25, 28.969, 13.244

■ 28, 23.958, 11.062

■ 30, 18.889, 9.300

■ 33, 13.889, 7.859

■ 36, 9.046, 6.656

■ 39, 4.410, 5.615

Harmonies

Complementary

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



19, 45.934, 27.292



37, 30.084, 174.059

Rectangle

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



19, 45.934, 27.292



19, 45.934, 77.292



19, 45.934, 207.292



19, 45.934, 257.292

Sweetspot

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



19, 45.918, 27.314



43, 17.281, 7.975



19, 59.011, 321.664



20, 11.957, 8.387



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



19, 45.918, 27.314



26, 56.272, 29.210



23, 44.401, 48.477



19, 2.511, 5.509



23, 51.100, 28.427



51, 91.451, 31.916

Inverse Universe

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



19, 45.918, 27.314



26, 56.272, 29.210



27, 24.582, 255.886



19, 2.511, 5.509



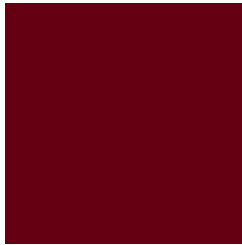
23, 51.100, 28.427



51, 91.451, 31.916

Previews

White Background



This preview shows how the CIE LCh color 19, 45.934, 27.292 looks on a white background.

Color Contrast Check

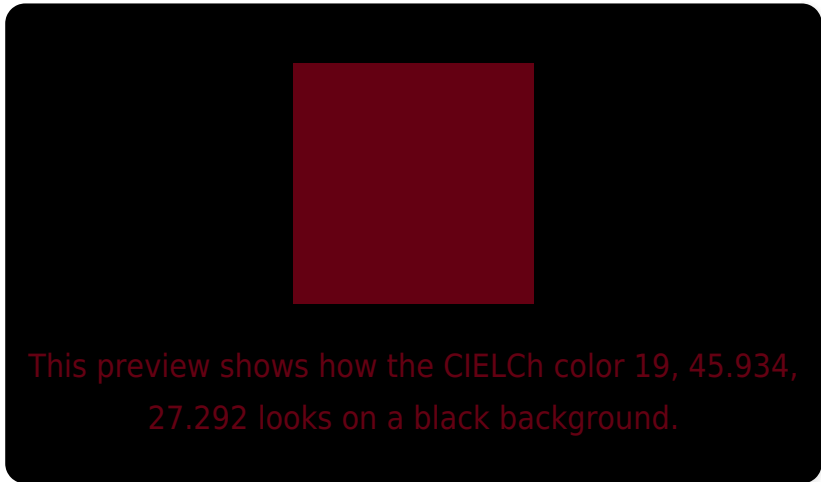
Large Text (above 18pt) WCAG AA ✓ Pass

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

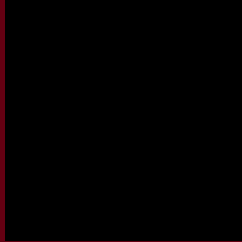
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 19, 45.934, 27.292

Background



This preview shows how black text looks on a background with the CIELCh color 19, 45.934, 27.292.



This preview shows how white text looks on a background with the CIELCh color 19, 45.934, 27.292.

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, 45.934, 27.292

Protanopia

21, 15.479, 96.717

Deuteranopia

21, 26.034, 84.120



Tritanopia
20, 48.327, 38.235

Trichromacy



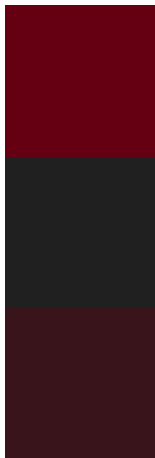
Original Color
19, 45.934, 27.292

Protanomaly
18, 23.139, 37.923

Deuteranomaly
18, 30.089, 47.436

Tritanomaly
19, 47.261, 34.579

Monochromacy



Original Color
19, 45.934, 27.292

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 19.634, 12.362

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 45.934, 27.292 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(100, 0, 18)` looks like.

```
.text, #text, p{  
    color:rgb(100, 0, 18)  
}
```

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(100, 0, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 0, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 45.934, 27.292 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(100, 0, 18) }
```

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

```
.border{ border-color:rgb(100, 0, 18) }
```

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

Here you see how a box with a 4 pixel rgb(100, 0, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 0, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 0, 18);  
box-shadow:4px 4px 4px 4px rgb(100, 0, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 45.934, 27.292 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 0, 18) }
```

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

```
.background{ background-color: rgb(100, 0,  
18) }
```

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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