

Converting Colors

CIELCh(20, 44.289, 52.956)

Have a look what the booklet for
CIELCh(20, 44.289, 52.956) contains.

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Color

CIELCh(20, 40.333, 47.602)

Conversions

Conversions Part 1

Format	Color
Hex	5A1C00
RGB	90, 28, 0
RGB Percent	35%, 11%, 0%
CMY	0.6477, 0.8907, 1.0000
CMYK	0.00, 0.69, 1.00, 0.65
HSL	19°, 100%, 18%
HSV	19°, 100%, 35%
XYZ	4.6118, 2.9891, 0.3284
YIQ	43.3460, 45.9400, 4.4360

Conversions

Conversions Part 2

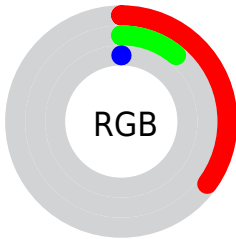
Format	Color
R _Y B	90, 41, 0
Decimal	5905408
CIE Lab	20.00, 27.20, 29.79
CIE LCh	20, 40.333, 47.602
Yxy	2.9891, 0.5816, 0.3770
Android (android.graphics.Color)	4284095488 (0xFF5A1C00)
YUV	43.3460, -21.3696, 40.9156
Hunter-Lab	17.2889, 17.3597, 10.9759

Details

The CIELCh color **20, 40.333, 47.602** is a dark color, and the websafe version is hex **663300**. A complement of this color would be **24, 22.473, 253.961**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 40.069, 47.632**, and **4, 19.370, 18.235** is the 20% darker color. If you saturate the color by 10%, you get **20, 40.281, 47.526**, and if you desaturate by 10%, it is **21, 36.658, 48.657**.

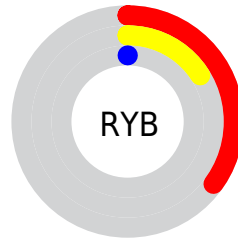
Distribution



Red (35%)

Green (11%)

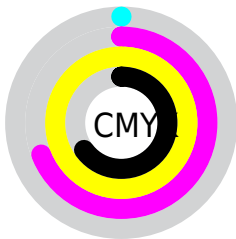
Blue (0%)



Red (35%)

Yellow (16%)

Blue (0%)

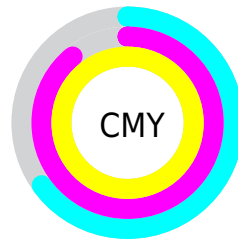


Cyan (0%)

Magenta (69%)

Yellow (100%)

Black (65%)



Cyan (65%)

Magenta (89%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 40.333, 47.602 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 20, 40.333, 47.602 by changing the saturation by 10% instead.

 20, 40.333, 47.602

 20, 40.333, 47.602

 100, 40.333,
47.602

 10, 40.333, 47.602

 0, 40.333, 47.602

 40, 40.333, 47.602

 50, 40.333, 47.602

 60, 40.333, 47.602

 70, 40.333, 47.602

 80, 40.333, 47.602

 90, 40.333, 47.602

 20, 40.333, 47.602

 20, 40.333, 47.602

■ 20, 40.281, 47.526

■ 21, 36.658, 48.657

■ 23, 32.418, 49.541

■ 24, 27.614, 49.701

■ 26, 22.927, 49.895

■ 28, 18.460, 50.174

■ 30, 14.254, 50.549

■ 32, 10.317, 51.009

■ 34, 6.640, 51.535

■ 36, 3.207, 52.089

Harmonies

Complementary

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



20, 40.333, 47.602



24, 22.473, 253.961

Rectangle

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



20, 40.333, 47.602



20, 40.333, 97.602



20, 40.333, 227.602



20, 40.333, 277.602

Sweetspot

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



20, 40.281, 47.526



42, 12.898, 50.961



18, 43.699, 343.377



19, 8.792, 50.835



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



20, 40.281, 47.526



27, 51.396, 48.546



31, 40.166, 89.068



18, 1.822, 52.149



25, 48.436, 48.390



55, 89.533, 47.389

Inverse Universe

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



24, 22.473, 253.961



32, 27.505, 255.748



10, 51.147, 300.380



18, 1.747, 233.554



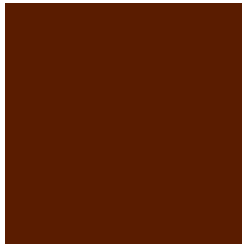
30, 26.126, 255.333



64, 47.505, 258.869

Previews

White Background



This preview shows how the CIELCh color 20, 40.333, 47.602 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 20, 40.333, 47.602 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 20, 40.333, 47.602

Background



This preview shows how black text looks on a background with the CIELCh color 20, 40.333, 47.602.



This preview shows how white text looks on a background with the CIELCh color 20, 40.333, 47.602.

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

20, 40.333, 47.602

Protanopia

21, 25.049, 96.655

Deuteranopia

20, 29.043, 85.506



Tritanopia
20, 33.300, 28.047

Trichromacy



Original Color
20, 40.333, 47.602

Protanomaly
20, 27.227, 71.545

Deuteranomaly
20, 31.146, 66.872

Tritanomaly
20, 36.004, 38.134

Monochromacy



Original Color
20, 40.333, 47.602

Achromatopsia
18, 0.003, 296.813

Achromatomaly
17, 14.624, 49.421

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 40.333, 47.602 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(90, 28, 0)` looks like.

```
.text, #text, p{  
    color:rgb(90, 28, 0)  
}
```

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(90, 28, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 28, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 40.333, 47.602 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(90, 28, 0) }
```

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

```
.border{ border-color:rgb(90, 28, 0) }
```

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

Here you see how a box with a 4 pixel rgb(90, 28, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 28, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(90, 28, 0); box-shadow:4px  
4px 4px 4px rgb(90, 28, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 40.333, 47.602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 28, 0) }
```

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

```
.background{ background-color: rgb(90, 28,  
0) }
```

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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