

Converting Colors

CIELCh(9, 93.927, 36.585)

Have a look what the booklet for
CIELCh(9, 93.927, 36.585) contains.

CIELCh(20, 50.509, 35.326)	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(20, 50.509, 35.326)

Conversions

Conversions Part 1

Format	Color
Hex	680103
RGB	104, 1, 3
RGB Percent	41%, 0%, 1%
CMY	0.5916, 0.9945, 0.9870
CMYK	0.00, 0.99, 0.97, 0.59
HSL	359°, 97%, 21%
HSV	359°, 99%, 41%
XYZ	5.7588, 2.9891, 0.3689
YIQ	32.0250, 60.7460, 22.4580

Conversions

Conversions Part 2

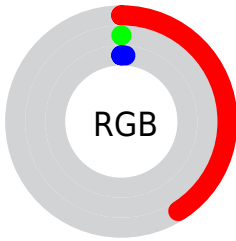
Format	Color
RYB	104, 1, 3
Decimal	6816003
CIELab	20.00, 41.21, 29.21
CIELCh	20, 50.509, 35.326
Yxy	2.9891, 0.6317, 0.3279
Android (android.graphics.Color)	4285006083 (0xFF680103)
YUV	32.0250, -14.3093, 63.1221
Hunter-Lab	17.2889, 29.2012, 10.8370

Details

The CIELCh color **20, 50.509, 35.326** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **39, 26.189, 193.731**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 50.344, 35.300**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 51.005, 35.493**, and if you desaturate by 10%, it is **21, 46.791, 33.738**.

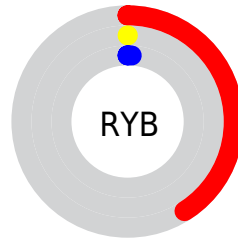
Distribution



Red (41%)

Green (0%)

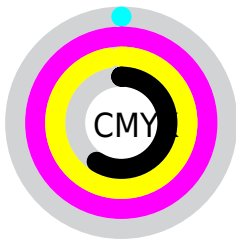
Blue (1%)



Red (41%)

Yellow (0%)

Blue (1%)

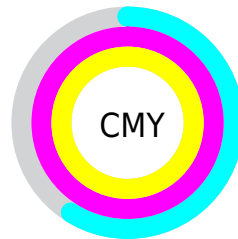


Cyan (0%)

Magenta (99%)

Yellow (97%)

Black (59%)



Cyan (59%)

Magenta (99%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 50.509, 35.326 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, 50.509, 35.326 by changing the saturation by 10% instead.

 20, 50.509, 35.326

 20, 50.509, 35.326

 100, 50.509,
35.326

 10, 50.509, 35.326

 40, 50.509, 35.326

 0, 50.509, 35.326

 50, 50.509, 35.326

 60, 50.509, 35.326

 70, 50.509, 35.326

 80, 50.509, 35.326

 90, 50.509, 35.326

 20, 50.509, 35.326

 20, 50.509, 35.326

■ 20, 51.005, 35.493

■ 21, 46.791, 33.738

■ 22, 41.786, 30.606

■ 24, 36.158, 27.505

■ 26, 30.363, 24.958

■ 29, 24.585, 22.936

■ 32, 18.967, 21.352

■ 35, 13.605, 20.109

■ 38, 8.552, 19.122

■ 41, 3.828, 18.303

Harmonies

Complementary

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



20, 50.509, 35.326



39, 26.189, 193.731

Rectangle

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



20, 50.509, 35.326



20, 50.509, 85.326



20, 50.509, 215.326



20, 50.509, 265.326

Sweetspot

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



20, 50.507, 35.328



44, 17.773, 20.355



23, 59.577, 326.978



21, 12.347, 20.728



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



20, 50.507, 35.328



27, 63.531, 38.059



27, 43.085, 59.844



19, 2.443, 18.322



22, 55.416, 36.616



51, 99.834, 39.450

Inverse Universe

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



20, 50.507, 35.328



27, 63.531, 38.059



23, 32.833, 277.327



19, 2.443, 18.322



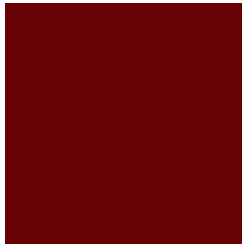
22, 55.416, 36.616



51, 99.834, 39.450

Previews

White Background



This preview shows how the CIELCh color 20, 50.509, 35.326 looks on a white background.

Color Contrast Check

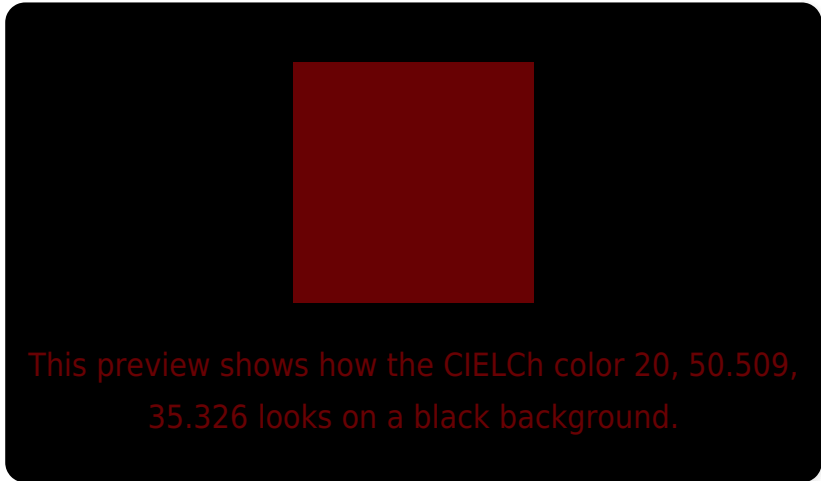
Large Text (above 18pt) WCAG AA ✓ Pass

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

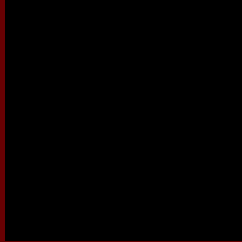
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 50.509, 35.326

Background



This preview shows how black text looks on a background with the CIELCh color 20, 50.509, 35.326.



This preview shows how white text looks on a background with the CIELCh color 20, 50.509, 35.326.

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, 50.575, 35.333

Protanopia

22, 24.813, 96.865

Deuteranopia

22, 30.575, 86.366



Tritanopia
20, 49.540, 38.714

Trichromacy



Original Color
20, 50.575, 35.333

Protanomaly
19, 29.171, 53.120

Deuteranomaly
19, 34.502, 53.191

Tritanomaly
20, 49.714, 37.550

Monochromacy



Original Color
20, 50.575, 35.333

Achromatopsia
12, 0.003, 296.813

Achromatomaly
13, 20.228, 24.274

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 50.509, 35.326 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(104, 1, 3)` looks like.

```
.text, #text, p{  
    color:rgb(104, 1, 3)  
}
```

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(104, 1, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 1, 3) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 50.509, 35.326 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(104, 1, 3) }
```

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

```
.border{ border-color:rgb(104, 1, 3) }
```

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

Here you see how a box with a 4 pixel rgb(104, 1, 3) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 1, 3); -webkit-box-shadow:4px  
4px 4px 4px rgb(104, 1, 3); box-shadow:4px  
4px 4px 4px rgb(104, 1, 3) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 50.509, 35.326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 1, 3) }
```

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

```
.background{ background-color: rgb(104, 1,  
3) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor