

Converting Colors

CIELCh(20, 13.137, 88.253)

Have a look what the booklet for
CIELCh(20, 13.137, 88.253) contains.

CIELCh(20, 13.495, 88.705)	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, 13.495, 88.705)

Conversions

Conversions Part 1

Format	Color
Hex	38301D
RGB	56, 48, 29
RGB Percent	22%, 19%, 11%
CMY	0.7823, 0.8136, 0.8880
CMYK	0.00, 0.14, 0.49, 0.78
HSL	42°, 32%, 16%
HSV	42°, 49%, 22%
XYZ	2.8578, 2.9891, 1.5602
YIQ	48.2260, 10.8670, -4.2130

Conversions

Conversions Part 2

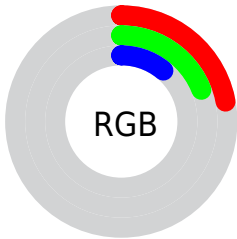
Format	Color
RYB	40, 56, 29
Decimal	3682333
CIELab	20.00, 0.30, 13.49
CIELCh	20, 13.495, 88.705
Yxy	2.9891, 0.3858, 0.4035
Android (android.graphics.Color)	4281872413 (0xFF38301D)
YUV	48.2260, -9.4784, 6.8178
Hunter-Lab	17.2889, -0.7501, 6.7518

Details

The CIELCh color **20, 13.495, 88.705** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **15, 13.666, 280.876**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 13.528, 88.400**, and **0, 0.486, 75.414** is the 20% darker color. If you saturate the color by 10%, you get **19, 16.312, 87.539**, and if you desaturate by 10%, it is **21, 10.667, 89.852**.

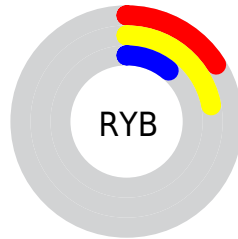
Distribution



 Red (22%)

 Green (19%)

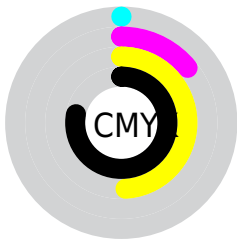
 Blue (11%)



 Red (16%)

 Yellow (22%)

 Blue (11%)

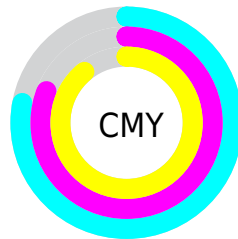


 Cyan (0%)

 Magenta (14%)

 Yellow (49%)

 Black (78%)



 Cyan (78%)

 Magenta (81%)

 Yellow (89%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 13.495, 88.705 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, 13.495, 88.705 by changing the saturation by 10% instead.

■ 20, 13.495, 88.705

■ 20, 13.495, 88.705

■ 100, 13.495,
88.705

■ 10, 13.495, 88.705

■ 0, 13.495, 88.705

■ 40, 13.495, 88.705

■ 50, 13.495, 88.705

■ 60, 13.495, 88.705

■ 70, 13.495, 88.705

■ 80, 13.495, 88.705

■ 90, 13.495, 88.705

■ 20, 13.495, 88.705

■ 20, 13.495, 88.705

■ 19, 16.312, 87.539

■ 21, 10.667, 89.852

■ 19, 19.064, 86.334

■ 21, 7.852, 90.966

■ 18, 21.301, 84.992

■ 22, 5.066, 92.050

■ 18, 22.972, 83.519

■ 23, 2.317, 93.088

■ 17, 24.609, 82.220

■ 23, 0.393, 274.375

■ 17, 24.846, 82.047

■ 24, 3.063, 275.171

■ 25, 5.694, 276.113

■ 26, 8.287, 277.024

■ 26, 10.844,
277.900

Harmonies

Complementary

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



20, 13.495, 88.705



15, 13.666, 280.876

Rectangle

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



20, 13.495, 88.705



20, 13.495, 138.705



20, 13.495, 268.705



20, 13.495, 318.705

Sweetspot

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



20, 13.495, 88.710



29, 5.045, 92.351



14, 14.476, 1.040



13, 3.374, 92.300



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



20, 13.495, 88.710



26, 19.946, 87.280



22, 17.776, 115.190



10, 1.513, 93.108



29, 39.361, 80.987



68, 73.931, 78.858

Inverse Universe

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



15, 13.666, 280.876



18, 20.397, 283.393



12, 19.610, 301.710



9, 1.519, 274.935



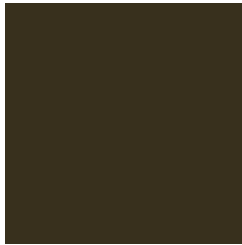
13, 45.672, 296.063



36, 93.478, 298.937

Previews

White Background



This preview shows how the CIELCh color 20, 13.495, 88.705 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, 13.495, 88.705 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

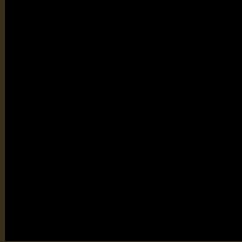
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 13.495, 88.705

Background



This preview shows how black text looks on a background with the CIELCh color 20, 13.495, 88.705.

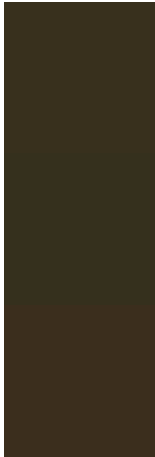


This preview shows how white text looks on a background with the CIELCh color 20, 13.495, 88.705.

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

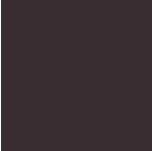
20, 13.495, 88.705

Protanopia

20, 13.047, 95.361

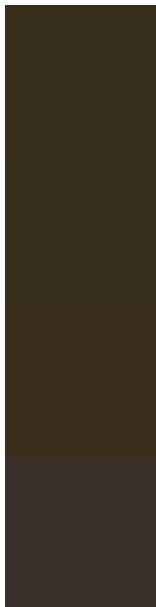
Deuteranopia

20, 13.569, 76.484



Tritanopia
20, 6.322, 355.458

Trichromacy



Original Color
20, 13.495, 88.705

Protanomaly
20, 13.174, 93.097

Deuteranomaly
20, 13.570, 81.562

Tritanomaly
20, 5.691, 48.580

Monochromacy



Original Color
20, 13.495, 88.705

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 4.968, 91.662

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 13.495, 88.705 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(56, 48, 29)` looks like.

```
.text, #text, p{  
    color:rgb(56, 48, 29)  
}
```

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(56, 48, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 48, 29) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 13.495, 88.705 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(56, 48, 29) }
```

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

```
.border{ border-color:rgb(56, 48, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 48, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 48, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 48, 29);  
box-shadow:4px 4px 4px 4px rgb(56, 48, 29)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 13.495, 88.705 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 48, 29) }
```

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

```
.background{ background-color: rgb(56, 48,  
29) }
```

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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