

Converting Colors

CIELCh(20, 45.052, 18.254)

Have a look what the booklet for
CIELCh(20, 45.052, 18.254) contains.

CIELCh(20, 44.851, 18.782)	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, 44.851, 18.782)

Conversions

Conversions Part 1

Format	Color
Hex	67001E
RGB	103, 0, 30
RGB Percent	40%, 0%, 12%
CMY	0.5942, 1.0000, 0.8838
CMYK	0.00, 1.00, 0.71, 0.59
HSL	343°, 100%, 20%
HSV	343°, 100%, 41%
XYZ	5.8698, 2.9891, 1.4705
YIQ	34.2170, 51.7580, 31.1660

Conversions

Conversions Part 2

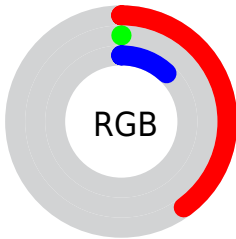
Format	Color
R_YB	103, 0, 30
Decimal	6750238
CIE Lab	20.00, 42.46, 14.44
CIE LCh	20, 44.851, 18.782
Yxy	2.9891, 0.5683, 0.2894
Android (android.graphics.Color)	4284940318 (0xFF67001E)
YUV	34.2170, -2.0790, 60.3227
Hunter-Lab	17.2889, 30.3472, 7.0593

Details

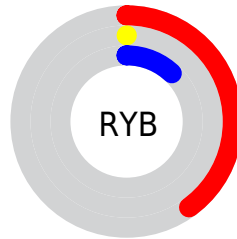
The CIELCh color **20, 44.851, 18.782** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **38, 35.105, 164.223**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 44.471, 18.948**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 44.719, 18.936**, and if you desaturate by 10%, it is **21, 41.622, 14.833**.

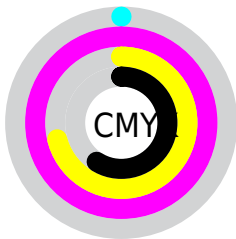
Distribution



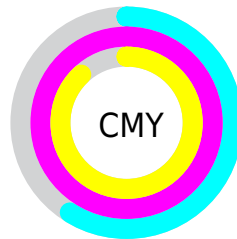
- Red (40%)
- Green (0%)
- Blue (12%)



- Red (40%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (71%)
- Black (59%)



- Cyan (59%)
- Magenta (100%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 44.851, 18.782 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, 44.851, 18.782 by changing the saturation by 10% instead.

 20, 44.851, 18.782

 20, 44.851, 18.782

 100, 44.851,
18.782

 10, 44.851, 18.782

 0, 44.851, 18.782

 40, 44.851, 18.782

 50, 44.851, 18.782

 60, 44.851, 18.782

 70, 44.851, 18.782

 80, 44.851, 18.782

 90, 44.851, 18.782

 20, 44.851, 18.782

 20, 44.851, 18.782

■ 20, 44.719, 18.936

■ 21, 41.622, 14.833

■ 22, 38.386, 10.878

■ 24, 34.439, 7.688

■ 26, 29.908, 5.136

■ 29, 24.988, 3.080

■ 31, 19.875, 1.398

■ 34, 14.728,
359.997

■ 37, 9.659, 358.803

■ 41, 4.738, 357.751

Harmonies

Complementary

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



20, 44.851, 18.782



38, 35.105, 164.223

Rectangle

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



20, 44.851, 18.782



20, 44.851, 68.782



20, 44.851, 198.782



20, 44.851, 248.782

Sweetspot

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



20, 44.719, 18.936



45, 18.364, 0.109



17, 61.545, 317.867



21, 12.679, 0.524



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, 44.719, 18.936



28, 54.598, 20.723



22, 48.085, 42.368



19, 2.623, 357.640



23, 48.288, 19.678



51, 85.468, 23.410

Inverse Universe

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



20, 44.719, 18.936



28, 54.598, 20.723



32, 22.546, 233.271



19, 2.623, 357.640



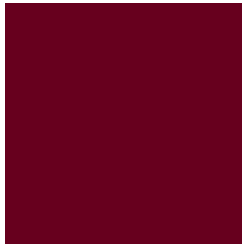
23, 48.288, 19.678



51, 85.468, 23.410

Previews

White Background



This preview shows how the CIELCh color 20, 44.851, 18.782 looks on a white background.

Color Contrast Check

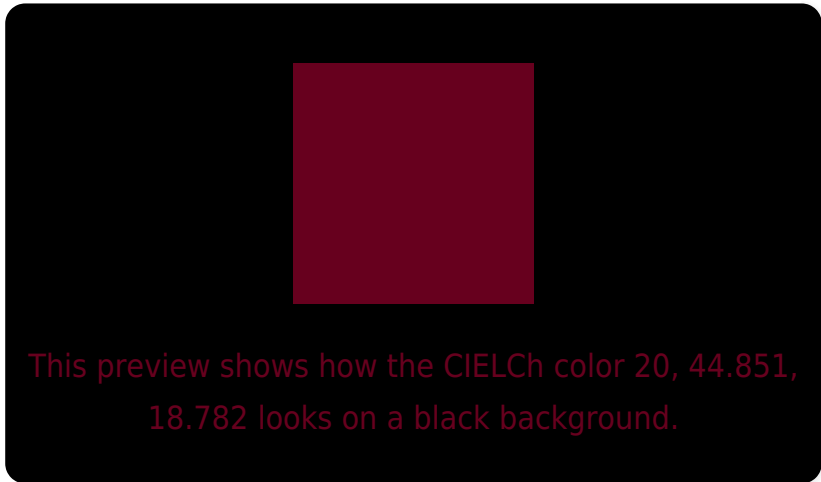
Large Text (above 18pt) WCAG AA ✓ Pass

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, 44.851, 18.782

Background



This preview shows how black text looks on a background with the CIELCh color 20, 44.851, 18.782.



This preview shows how white text looks on a background with the CIELCh color 20, 44.851, 18.782.

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, 44.484, 18.463

Protanopia

22, 6.180, 95.037

Deuteranopia

22, 19.184, 80.956



Tritanopia
21, 47.272, 35.723

Trichromacy



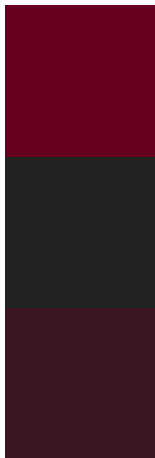
Original Color
20, 44.484, 18.463

Protanomaly
19, 19.803, 15.187

Deuteranomaly
19, 26.133, 34.347

Tritanomaly
20, 46.285, 31.237

Monochromacy



Original Color
20, 44.484, 18.463

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 19.589, 5.794

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 44.851, 18.782 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(103, 0, 30)` looks like.

```
.text, #text, p{  
    color:rgb(103, 0, 30)  
}
```

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(103, 0, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 0, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 44.851, 18.782 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(103, 0, 30) }
```

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

```
.border{ border-color:rgb(103, 0, 30) }
```

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

Here you see how a box with a 4 pixel rgb(103, 0, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 0, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 0, 30);  
box-shadow:4px 4px 4px 4px rgb(103, 0, 30)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 44.851, 18.782 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 0, 30) }
```

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

```
.background{ background-color: rgb(103, 0,  
30) }
```

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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