

Converting Colors

CIELCh(20, 44.115, 16.167)

Have a look what the booklet for
CIELCh(20, 44.115, 16.167) contains.

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Color

CIELCh(20, 44.046, 15.863)

Conversions

Conversions Part 1

Format	Color
Hex	670021
RGB	103, 0, 33
RGB Percent	40%, 0%, 13%
CMY	0.5963, 1.0000, 0.8707
CMYK	0.00, 1.00, 0.68, 0.60
HSL	341°, 100%, 20%
HSV	341°, 100%, 40%
XYZ	5.8614, 2.9891, 1.7043
YIQ	34.5590, 50.7950, 32.0990

Conversions

Conversions Part 2

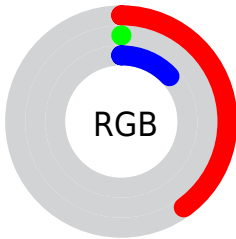
Format	Color
R_{YB}	103, 0, 33
Decimal	6750241
CIE Lab	20.00, 42.37, 12.04
CIE LCh	20, 44.046, 15.863
Yxy	2.9891, 0.5553, 0.2832
Android (android.graphics.Color)	4284940321 (0xFF670021)
YUV	34.5590, -0.7686, 60.0228
Hunter-Lab	17.2889, 30.2607, 6.2575

Details

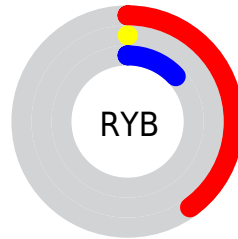
The CIELCh color **20, 44.046, 15.863** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **38, 36.428, 161.602**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 44.097, 15.875**, and **7, 27.542, 20.544** is the 20% darker color. If you saturate the color by 10%, you get **20, 44.033, 15.877**, and if you desaturate by 10%, it is **21, 41.194, 11.888**.

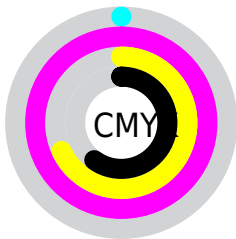
Distribution



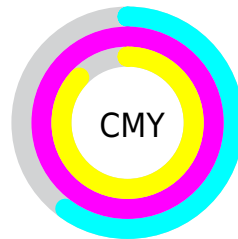
- Red (40%)
- Green (0%)
- Blue (13%)



- Red (40%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (68%)
- Black (60%)



- Cyan (60%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 44.046, 15.863 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, 44.046, 15.863 by changing the saturation by 10% instead.

 20, 44.046, 15.863

 20, 44.046, 15.863

 100, 44.046,
15.863

 10, 44.046, 15.863

 0, 44.046, 15.863

 40, 44.046, 15.863

 50, 44.046, 15.863

 60, 44.046, 15.863

 70, 44.046, 15.863

 80, 44.046, 15.863

 90, 44.046, 15.863

 20, 44.046, 15.863

 20, 44.046, 15.863

■ 20, 44.033, 15.877

■ 21, 41.194, 11.888

■ 22, 38.177, 8.079

■ 24, 34.386, 5.022

■ 26, 29.960, 2.575

■ 29, 25.102, 0.597

■ 31, 20.014,
358.971

■ 34, 14.864,
357.608

■ 37, 9.767, 356.439

■ 40, 4.800, 355.402

Harmonies

Complementary

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



20, 44.046, 15.863



38, 36.428, 161.602

Rectangle

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



20, 44.046, 15.863



20, 44.046, 65.863



20, 44.046, 195.863



20, 44.046, 245.863

Sweetspot

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



20, 44.033, 15.877



44, 18.317, 357.712



17, 61.686, 316.875



20, 12.437, 358.095



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



20, 44.033, 15.877



27, 53.079, 17.554



21, 48.455, 40.968



19, 2.669, 355.293



23, 47.678, 16.639



51, 84.007, 20.328

Inverse Universe

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



20, 44.033, 15.877



27, 53.079, 17.554



33, 22.366, 226.353



19, 2.669, 355.293



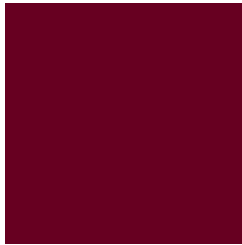
23, 47.678, 16.639



51, 84.007, 20.328

Previews

White Background



This preview shows how the CIELCh color 20, 44.046, 15.863 looks on a white background.

Color Contrast Check

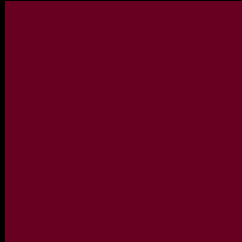
Large Text (above 18pt) WCAG AA ✓ Pass

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, 44.046, 15.863 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, 44.046, 15.863

Background



This preview shows how black text looks on a background with the CIELCh color 20, 44.046, 15.863.



This preview shows how white text looks on a background with the CIELCh color 20, 44.046, 15.863.

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, 44.046, 15.863

Protanopia

22, 2.215, 84.380

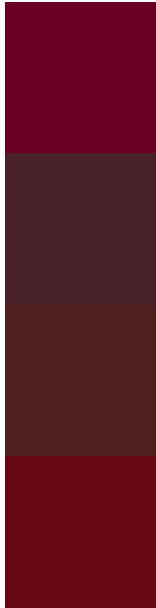
Deuteranopia

22, 16.589, 79.816



Tritanopia
21, 46.244, 35.092

Trichromacy



Original Color
20, 44.046, 15.863

Protanomaly
19, 19.943, 5.581

Deuteranomaly
19, 24.537, 28.842

Tritanomaly
20, 45.080, 29.116

Monochromacy



Original Color
20, 44.046, 15.863

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 20.210, 2.543

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 44.046, 15.863 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(103, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 0, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 44.046, 15.863 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, 33) }
```

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

```
.border{ border-color:rgb(103, 0, 33) }
```

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, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(103, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 44.046, 15.863 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, 33) }
```

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

```
.background{ background-color: rgb(103, 0,  
33) }
```

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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