

Converting Colors

CIELCh(20, 45.088, 22.486)

Have a look what the booklet for
CIELCh(20, 45.088, 22.486) contains.

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Color

CIELCh(20, 45.032, 22.071)

Conversions

Conversions Part 1

Format	Color
Hex	67011A
RGB	103, 1, 26
RGB Percent	40%, 0%, 10%
CMY	0.5957, 0.9955, 0.8978
CMYK	0.00, 0.99, 0.75, 0.60
HSL	345°, 98%, 20%
HSV	345°, 99%, 40%
XYZ	5.8049, 2.9891, 1.2525
YIQ	34.3480, 52.7670, 29.3990

Conversions

Conversions Part 2

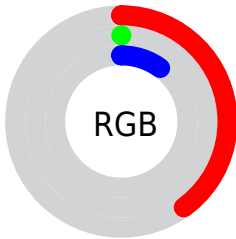
Format	Color
RYB	103, 1, 26
Decimal	6750490
CIELab	20.00, 41.73, 16.92
CIELCh	20, 45.032, 22.071
Yxy	2.9891, 0.5778, 0.2975
Android (android.graphics.Color)	4284940570 (0xFF67011A)
YUV	34.3480, -4.1156, 60.2078
Hunter-Lab	17.2889, 29.6775, 7.8069

Details

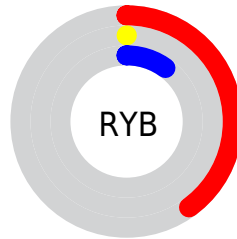
The CIELCh color **20, 45.032, 22.071** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 33.086, 167.935**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 44.989, 21.953**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 45.433, 22.495**, and if you desaturate by 10%, it is **21, 41.651, 17.858**.

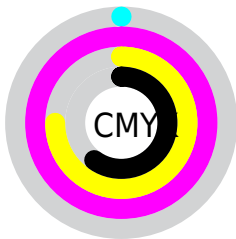
Distribution



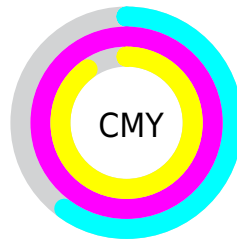
- Red (40%)
- Green (0%)
- Blue (10%)



- Red (40%)
- Yellow (0%)
- Blue (10%)



- Cyan (0%)
- Magenta (99%)
- Yellow (75%)
- Black (60%)



- Cyan (60%)
- Magenta (100%)
- Yellow (90%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.032, 22.071 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, 45.032, 22.071 by changing the saturation by 10% instead.

 20, 45.032, 22.071

 20, 45.032, 22.071

 100, 45.032,
22.071

 10, 45.032, 22.071

 40, 45.032, 22.071

 0, 45.032, 22.071

 50, 45.032, 22.071

 60, 45.032, 22.071

 70, 45.032, 22.071

 80, 45.032, 22.071

 90, 45.032, 22.071

 20, 45.032, 22.071

 20, 45.032, 22.071

20, 45.433, 22.495

21, 41.651, 17.858

22, 38.068, 13.870

24, 33.864, 10.639

26, 29.167, 8.052

29, 24.163, 5.971

32, 19.034, 4.277

35, 13.924, 2.872

38, 8.931, 1.681

41, 4.116, 0.631

Harmonies

Complementary

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



20, 45.032, 22.071



38, 33.086, 167.935

Rectangle

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



20, 45.032, 22.071



20, 45.032, 72.071



20, 45.032, 202.071



20, 45.032, 252.071

Sweetspot

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



20, 45.030, 22.073



45, 18.114, 3.131



18, 60.508, 319.452



21, 12.518, 3.554



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, 45.030, 22.073



28, 55.758, 24.317



23, 46.528, 44.761



19, 2.574, 0.632



23, 49.241, 23.269



51, 87.603, 26.979

Inverse Universe

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



20, 45.030, 22.073



28, 55.758, 24.317



30, 23.077, 243.109



19, 2.574, 0.632



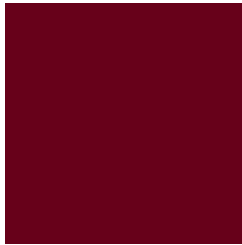
23, 49.241, 23.269



51, 87.603, 26.979

Previews

White Background



This preview shows how the CIE LCh color 20, 45.032, 22.071 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, 45.032, 22.071 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, 45.032, 22.071

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.032, 22.071.



This preview shows how white text looks on a background with the CIELCh color 20, 45.032, 22.071.

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, 45.032, 22.071

Protanopia

22, 8.915, 95.099

Deuteranopia

22, 21.462, 82.928



Tritanopia
21, 47.849, 36.252

Trichromacy



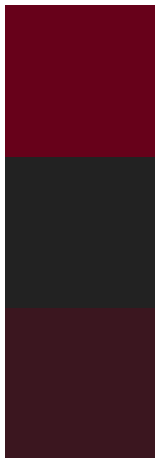
Original Color
20, 45.032, 22.071

Protanomaly
19, 20.352, 24.689

Deuteranomaly
19, 27.443, 39.199

Tritanomaly
20, 46.931, 32.105

Monochromacy



Original Color
20, 45.032, 22.071

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 19.535, 7.847

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 45.032, 22.071 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, 1, 26)` looks like.

```
.text, #text, p{  
    color:rgb(103, 1, 26)  
}
```

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, 1, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 1, 26) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 45.032, 22.071 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, 1, 26) }
```

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

```
.border{ border-color:rgb(103, 1, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 1, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 1, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 1, 26);  
box-shadow:4px 4px 4px 4px rgb(103, 1, 26)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 45.032, 22.071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 1, 26) }
```

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

```
.background{ background-color: rgb(103, 1,  
26) }
```

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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