

Converting Colors

CIELCh(21, 45.450, 16.949)

Have a look what the booklet for
CIELCh(21, 45.450, 16.949) contains.

CIELCh(21, 45.466, 17.217)	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(21, 45.466, 17.217)

Conversions

Conversions Part 1

Format	Color
Hex	6B0021
RGB	107, 0, 33
RGB Percent	42%, 0%, 13%
CMY	0.5800, 0.9995, 0.8703
CMYK	0.00, 1.00, 0.69, 0.58
HSL	342°, 100%, 21%
HSV	342°, 100%, 42%
XYZ	6.3525, 3.2451, 1.7358
YIQ	35.7550, 53.1790, 32.9470

Conversions

Conversions Part 2

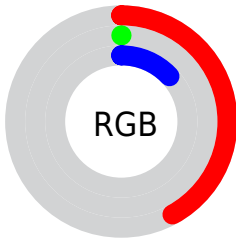
Format	Color
R_{YB}	107, 0, 33
Decimal	7012385
CIE _{Lab}	21.00, 43.43, 13.46
CIE _{LCh}	21, 45.466, 17.217
Yxy	3.2451, 0.5605, 0.2863
Android (android.graphics.Color)	4285202465 (0xFF6B0021)
YUV	35.7550, -1.3582, 62.4819
Hunter-Lab	18.0142, 31.4215, 6.8970

Details

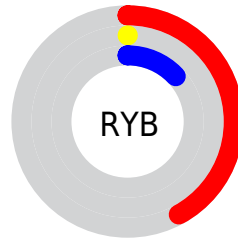
The CIELCh color **21, 45.466, 17.217** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **40, 36.947, 162.446**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 45.353, 17.116**, and **7, 28.690, 22.151** is the 20% darker color. If you saturate the color by 10%, you get **21, 45.506, 17.270**, and if you desaturate by 10%, it is **22, 42.523, 13.075**.

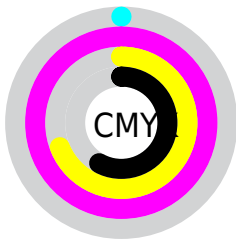
Distribution



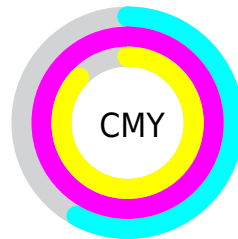
- Red (42%)
- Green (0%)
- Blue (13%)



- Red (42%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (69%)
- Black (58%)



- Cyan (58%)
- Magenta (100%)
- Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 45.466, 17.217 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 21, 45.466, 17.217 by changing the saturation by 10% instead.

 21, 45.466, 17.217

 21, 45.466, 17.217

 100, 45.466,
17.217

 11, 45.466, 17.217

 41, 45.466, 17.217

 1, 45.466, 17.217

 51, 45.466, 17.217

 0, 45.466, 17.217

 61, 45.466, 17.217

 71, 45.466, 17.217

 81, 45.466, 17.217

 91, 45.466, 17.217

 21, 45.466, 17.217

 21, 45.466, 17.217

■ 21, 45.506, 17.270

■ 22, 42.523, 13.075

■ 23, 39.351, 9.172

■ 25, 35.400, 6.036

■ 27, 30.806, 3.529

■ 30, 25.777, 1.508

■ 33, 20.522,
359.851

■ 36, 15.212,
358.466

■ 39, 9.967, 357.283

■ 42, 4.862, 356.236

Harmonies

Complementary

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



21, 45.466, 17.217



40, 36.947, 162.446

Rectangle

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



21, 45.466, 17.217



21, 45.466, 67.217



21, 45.466, 197.217



21, 45.466, 247.217

Sweetspot

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



21, 45.464, 17.219



46, 19.087, 358.592



18, 63.209, 317.326



22, 13.174, 359.015



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



21, 45.464, 17.219



29, 55.622, 19.001



22, 49.873, 41.892



21, 2.763, 356.144



23, 48.667, 17.898



52, 85.194, 21.497

Inverse Universe

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



21, 45.464, 17.219



29, 55.622, 19.001



34, 23.004, 229.937



21, 2.763, 356.144



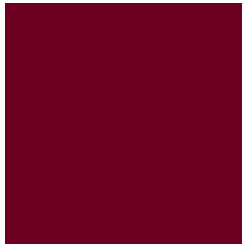
23, 48.667, 17.898



52, 85.194, 21.497

Previews

White Background



This preview shows how the CIELCh color 21, 45.466, 17.217 looks on a white background.

Color Contrast Check

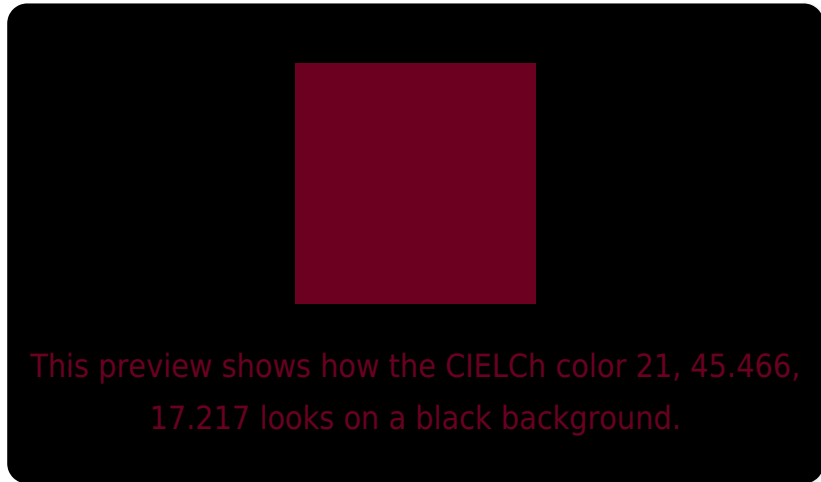
Large Text (above 18pt) WCAG AA ✓ Pass

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

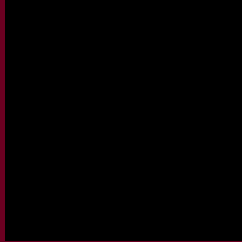
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 45.466, 17.217

Background



This preview shows how black text looks on a background with the CIELCh color 21, 45.466, 17.217.



This preview shows how white text looks on a background with the CIELCh color 21, 45.466, 17.217.

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

21, 45.466, 17.217

Protanopia

23, 3.618, 86.100

Deuteranopia

23, 17.916, 79.890



Tritanopia
22, 48.444, 35.528

Trichromacy



Original Color
21, 45.466, 17.217

Protanomaly
19, 20.741, 8.528

Deuteranomaly
20, 26.215, 30.259

Tritanomaly
21, 47.171, 29.933

Monochromacy



Original Color
21, 45.466, 17.217

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 20.599, 3.137

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 45.466, 17.217 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(107, 0, 33)` looks like.

```
.text, #text, p{  
    color:rgb(107, 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(107, 0, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 0, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 45.466, 17.217 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(107, 0, 33) }
```

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

```
.border{ border-color:rgb(107, 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(107, 0, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(107, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 45.466, 17.217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 0, 33) }
```

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

```
.background{ background-color: rgb(107, 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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