

Converting Colors

CIELCh(21, 35.000, 79.784)

Have a look what the booklet for
CIELCh(21, 35.000, 79.784) contains.

CIELCh(21, 30.677, 77.330)	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, 30.677, 77.330)

Conversions

Conversions Part 1

Format	Color
Hex	462E00
RGB	70, 46, 0
RGB Percent	27%, 18%, 0%
CMY	0.7259, 0.8200, 1.0000
CMYK	0.00, 0.34, 1.00, 0.73
HSL	39°, 100%, 14%
HSV	39°, 100%, 27%
XYZ	3.4915, 3.2451, 0.4388
YIQ	47.9320, 29.0700, -9.2180

Conversions

Conversions Part 2

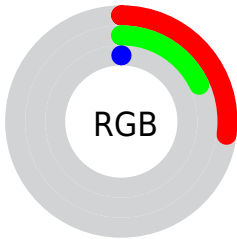
Format	Color
RYB	37, 70, 0
Decimal	4599296
CIELab	21.00, 6.73, 29.93
CIElCh	21, 30.677, 77.330
Yxy	3.2451, 0.4866, 0.4523
Android (android.graphics.Color)	4282789376 (0xFF462E00)
YUV	47.9320, -23.6305, 19.3536
Hunter-Lab	18.0142, 3.0717, 11.1656

Details

The CIELCh color **21, 30.677, 77.330** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **10, 33.713, 291.600**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 30.738, 78.191**, and **1, 6.390, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **21, 30.631, 77.302**, and if you desaturate by 10%, it is **22, 28.411, 78.820**.

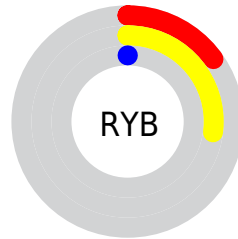
Distribution



Red (27%)

Green (18%)

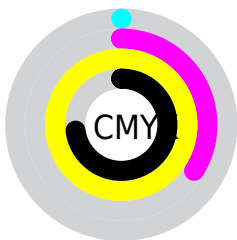
Blue (0%)



Red (15%)

Yellow (27%)

Blue (0%)

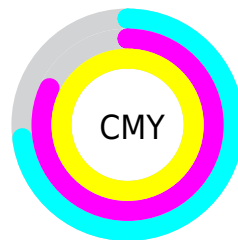


Cyan (0%)

Magenta (34%)

Yellow (100%)

Black (73%)



Cyan (73%)

Magenta (82%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 30.677, 77.330 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, 30.677, 77.330 by changing the saturation by 10% instead.

■ 21, 30.677, 77.330

■ 21, 30.677, 77.330

■ 100, 30.677,
77.330

■ 11, 30.677, 77.330

■ 41, 30.677, 77.330

■ 1, 30.677, 77.330

■ 51, 30.677, 77.330

■ 0, 30.677, 77.330

■ 61, 30.677, 77.330

■ 71, 30.677, 77.330

■ 81, 30.677, 77.330

■ 91, 30.677, 77.330

■ 21, 30.677, 77.330

■ 21, 30.677, 77.330

■ 21, 30.631, 77.302

■ 22, 28.411, 78.820

■ 23, 26.021, 80.474

■ 23, 22.923, 81.878

■ 24, 19.637, 83.198

■ 25, 16.284, 84.468

■ 26, 12.930, 85.701

■ 27, 9.610, 86.902

■ 28, 6.344, 88.069

■ 29, 3.138, 89.189

Harmonies

Complementary

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



21, 30.677, 77.330



10, 33.713, 291.600

Rectangle

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



21, 30.677, 77.330



21, 30.677, 127.330



21, 30.677, 257.330



21, 30.677, 307.330

Sweetspot

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



21, 30.631, 77.302



35, 12.064, 86.754



12, 33.313, 9.967



17, 8.124, 86.532



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



21, 30.631, 77.302



28, 38.912, 76.785



28, 38.525, 111.057



14, 1.777, 89.338



31, 41.367, 76.550



68, 75.540, 74.284

Inverse Universe

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



10, 33.713, 291.600



14, 42.394, 293.311



5, 49.084, 305.834



13, 1.777, 271.362



16, 45.325, 293.730



40, 89.410, 296.538

Previews

White Background



This preview shows how the CIE LCh color 21, 30.677, 77.330 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 21, 30.677, 77.330 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

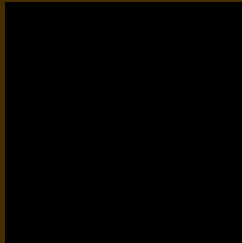
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 30.677, 77.330

Background



This preview shows how black text looks on a background with the CIELCh color 21, 30.677, 77.330.

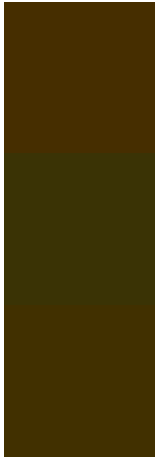


This preview shows how white text looks on a background with the CIELCh color 21, 30.677, 77.330.

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, 30.677, 77.330

Protanopia

21, 27.687, 95.765

Deuteranopia

21, 29.783, 84.783



Tritanopia
21, 14.406, 14.865

Trichromacy



Original Color
21, 30.677, 77.330

Protanomaly
21, 28.292, 88.818

Deuteranomaly
21, 30.020, 81.466

Tritanomaly
21, 18.182, 54.543

Monochromacy



Original Color
21, 30.677, 77.330

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 11.864, 83.927

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 30.677, 77.330 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(70, 46, 0)` looks like.

```
.text, #text, p{  
    color:rgb(70, 46, 0)  
}
```

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(70, 46, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 46, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 30.677, 77.330 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(70, 46, 0) }
```

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

```
.border{ border-color:rgb(70, 46, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 46, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 46, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(70, 46, 0); box-shadow:4px  
4px 4px 4px rgb(70, 46, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 30.677, 77.330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 46, 0) }
```

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

```
.background{ background-color: rgb(70, 46,  
0) }
```

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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor