

Converting Colors

CIELCh(20, 50.123, 154.612)

Have a look what the booklet for
CIELCh(20, 50.123, 154.612)
contains.

CIELCh(21, 37.862, 141.510)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(21, 37.862, 141.510)

Conversions

Conversions Part 1

Format	Color
Hex	003C0C
RGB	0, 60, 12
RGB Percent	0%, 24%, 5%
CMY	1.0000, 0.7649, 0.9533
CMYK	1.00, 0.00, 0.80, 0.76
HSL	132°, 100%, 12%
HSV	132°, 100%, 24%
XYZ	1.6647, 3.2451, 0.8839
YIQ	36.5880, -20.3520, -27.6480

Conversions

Conversions Part 2

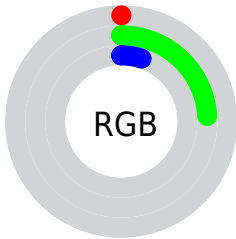
Format	Color
RYB	0, 50, 60
Decimal	15372
CIELab	21.00, -29.64, 23.56
CIELCh	21, 37.862, 141.510
Yxy	3.2451, 0.2873, 0.5601
Android (android.graphics.Color)	4278205452 (0xFF003C0C)
YUV	36.5880, -12.1219, -32.0877
Hunter-Lab	18.0142, -15.0299, 9.7009

Details

The CIELCh color **21, 37.862, 141.510** is a dark color, and the websafe version is hex **003300**. A complement of this color would be **10, 35.939, 336.579**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 37.841, 141.233**, and **1, 3.447, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **21, 37.691, 141.229**, and if you desaturate by 10%, it is **21, 34.864, 142.052**.

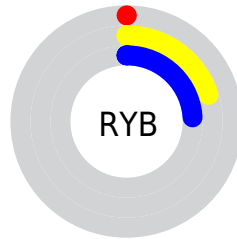
Distribution



Red (0%)

Green (24%)

Blue (5%)



Red (0%)

Yellow (20%)

Blue (24%)

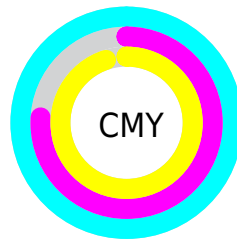


Cyan (100%)

Magenta (0%)

Yellow (80%)

Black (76%)



Cyan (100%)


Magenta (76%)


Yellow (95%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 37.862, 141.510 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, 37.862, 141.510 by changing the saturation by 10% instead.

 21, 37.862,
141.510


 21, 37.862,
141.510

 100, 37.862,
141.510


 11, 37.862,
141.510


 41, 37.862,
141.510


 1, 37.862, 141.510

 51, 37.862,
141.510

 0, 37.862, 141.510

 61, 37.862,
141.510

 71, 37.862,
141.510

 81, 37.862,
141.510

 91, 37.862,

141.510

■ 21, 37.862,
141.510

■ 21, 37.862,
141.510

■ 21, 37.691,
141.229

■ 21, 34.864,
142.052

■ 21, 31.842,
143.316

■ 22, 28.501,
144.604

■ 22, 24.844,
145.778

■ 22, 20.944,
146.830

■ 23, 16.870,
147.762

■ 23, 12.687,
148.586

■ 24, 8.450, 149.312

■ 25, 4.207, 149.961

Harmonies

Complementary

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



21, 37.862, 141.510



10, 35.939, 336.579

Rectangle

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



21, 37.862, 141.510



21, 37.862, 191.510



21, 37.862, 321.510



21, 37.862, 11.510

Sweetspot

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



21, 37.691, 141.229



31, 15.976, 148.473



23, 34.302, 113.006



15, 10.997, 148.345



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



21, 37.691, 141.229



28, 46.354, 140.216



22, 24.396, 163.810



11, 2.374, 150.058



34, 52.957, 139.728



77, 101.939, 138.342

Inverse Universe

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



10, 35.939, 336.579



16, 42.918, 337.063



9, 30.095, 10.531



10, 2.381, 330.903



20, 48.310, 337.331



50, 88.999, 338.231

Previews

White Background



This preview shows how the CIELCh color 21, 37.862, 141.510 looks on a white background.

Color Contrast Check

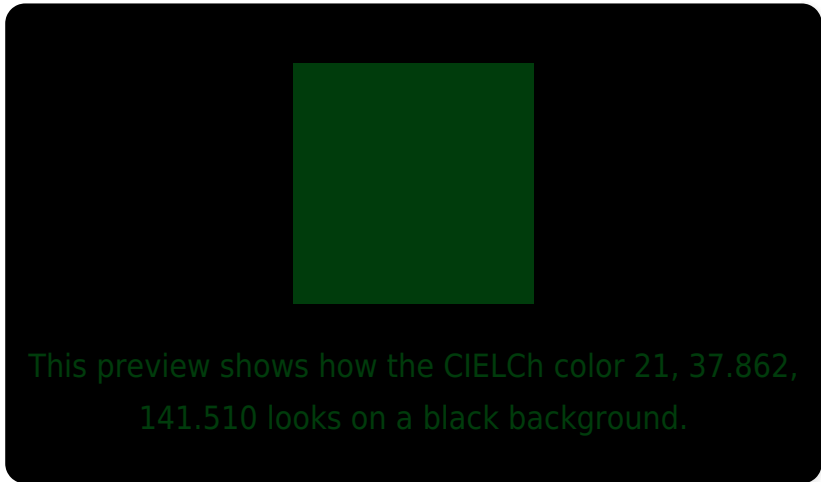
Large Text (above 18pt) WCAG AA ✓ Pass

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

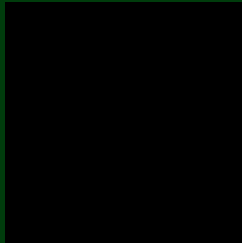
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 37.862, 141.510

Background



This preview shows how black text looks on a background with the CIELCh color 21, 37.862, 141.510.



This preview shows how white text looks on a background with the CIELCh color 21, 37.862, 141.510.

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

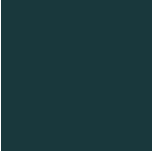
21, 37.691, 141.252

Protanopia

21, 25.675, 95.532

Deuteranopia

21, 22.614, 83.579



Tritanopia
21, 11.781, 210.807

Trichromacy



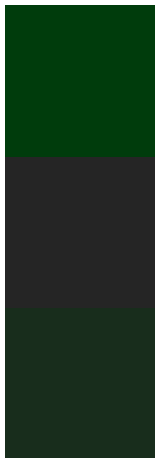
Original Color
21, 37.691, 141.252

Protanomaly
20, 27.997, 122.581

Deuteranomaly
20, 24.922, 119.273

Tritanomaly
21, 18.894, 165.980

Monochromacy



Original Color
21, 37.691, 141.252

Achromatopsia
15, 0.003, 296.813

Achromatomaly
16, 15.519, 147.136

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 37.862, 141.510 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(0, 60, 12)` looks like.

```
.text, #text, p{  
    color:rgb(0, 60, 12)  
}
```

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(0, 60, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 60, 12) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 37.862, 141.510 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(0, 60, 12) }
```

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

```
.border{ border-color:rgb(0, 60, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 60, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 60, 12); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 60, 12); box-shadow:4px  
4px 4px 4px rgb(0, 60, 12) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 37.862, 141.510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 60, 12) }
```

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

```
.background{ background-color: rgb(0, 60,  
12) }
```

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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