

Converting Colors

CIELCh(16, 42.458, 177.661)

Have a look what the booklet for
CIELCh(16, 42.458, 177.661)
contains.

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Color

CIELCh(18, 21.842, 165.129)

Conversions

Conversions Part 1

Format	Color
Hex	003323
RGB	0, 51, 35
RGB Percent	0%, 20%, 14%
CMY	1.0000, 0.7986, 0.8612
CMYK	1.00, 0.00, 0.31, 0.80
HSL	161°, 100%, 10%
HSV	161°, 100%, 20%
XYZ	1.5009, 2.5180, 2.0280
YIQ	33.9270, -25.2600, -15.7880

Conversions

Conversions Part 2

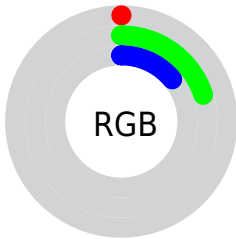
Format	Color
RYB	0, 30, 51
Decimal	13091
CIELab	18.00, -21.11, 5.61
CIELCh	18, 21.842, 165.129
Yxy	2.5180, 0.2482, 0.4164
Android (android.graphics.Color)	4278203171 (0xFF003323)
YUV	33.9270, 0.5290, -29.7540
Hunter-Lab	15.8683, -10.8863, 3.5305

Details

The CIELCh color **18, 21.842, 165.129** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 26.834, 8.011**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 21.899, 164.428**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 21.721, 164.970**, and if you desaturate by 10%, it is **18, 19.981, 165.990**.

Distribution



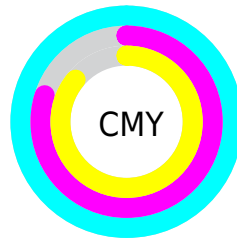
- Red (0%)
- Green (20%)
- Blue (14%)



- Red (0%)
- Yellow (12%)
- Blue (20%)



- Cyan (100%)
- Magenta (0%)
- Yellow (31%)
- Black (80%)





- Cyan (100%)
- Magenta (80%)
- Yellow (86%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 21.842, 165.129 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 18, 21.842, 165.129 by changing the saturation by 10% instead.

 18, 21.842,
165.129


 18, 21.842,
165.129


 100, 21.842,
165.129


 8, 21.842, 165.129


 38, 21.842,
165.129

 0, 21.842, 165.129

 48, 21.842,
165.129


 58, 21.842,
165.129


 68, 21.842,
165.129


 78, 21.842,
165.129


 88, 21.842,


165.129


 98, 21.842,
165.129


 18, 21.842,
165.129


 18, 21.842,
165.129


 18, 21.721,
164.970

 18, 19.981,
165.990

 18, 18.306,
167.250

 19, 16.541,
168.563

 19, 14.571,
169.760

 19, 12.420,
170.855

■ 20, 10.118,
171.864

■ 20, 7.696, 172.800

■ 20, 5.183, 173.679

■ 21, 2.609, 174.526

Harmonies

Complementary

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



18, 21.842, 165.129



7, 26.834, 8.011

Rectangle

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



18, 21.842, 165.129



18, 21.842, 215.129



18, 21.842, 345.129



18, 21.842, 35.129

Sweetspot

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



18, 21.721, 164.970



26, 9.517, 172.661



18, 34.287, 132.905



12, 6.346, 172.599



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



18, 21.721, 164.970



24, 26.051, 163.828



15, 14.046, 225.727



9, 1.434, 174.682



33, 32.381, 162.753



77, 63.585, 160.766

Inverse Universe

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



7, 26.834, 8.011



11, 32.291, 12.590



8, 24.063, 32.325



8, 1.462, 355.783



17, 39.822, 15.612



46, 77.437, 20.801

Previews

White Background



This preview shows how the CIELCh color 18, 21.842, 165.129 looks on a white background.

Color Contrast Check

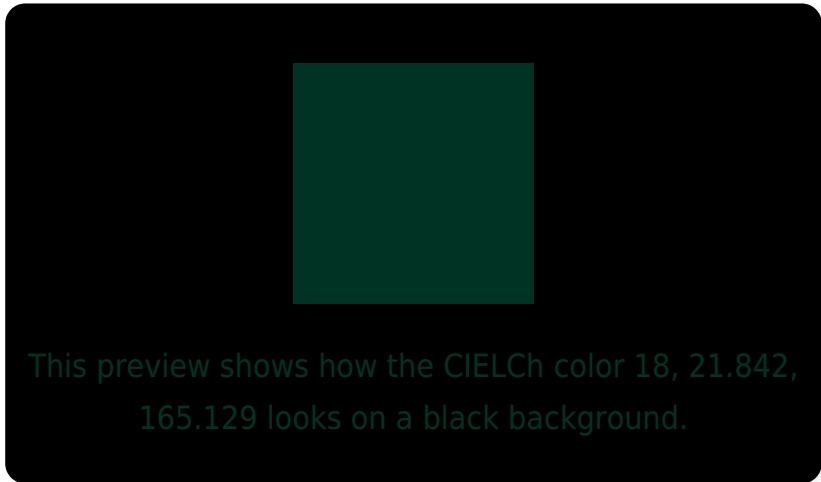
Large Text (above 18pt) WCAG AA ✓ Pass

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

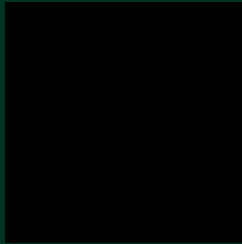
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 21.842, 165.129

Background



This preview shows how black text looks on a background with the CIELCh color 18, 21.842, 165.129.



This preview shows how white text looks on a background with the CIELCh color 18, 21.842, 165.129.

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
18, 21.688, 164.780

Protanopia
18, 9.006, 97.976

Deuteranopia
18, 6.196, 61.433



Tritanopia
18, 11.892, 210.808

Trichromacy



Original Color
18, 21.688, 164.780

Protanomaly
18, 12.371, 146.036

Deuteranomaly
17, 9.340, 149.939

Tritanomaly
18, 14.395, 188.264

Monochromacy



Original Color
18, 21.688, 164.780

Achromatopsia
13, 0.003, 296.813

Achromatomaly
14, 8.956, 173.954

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 21.842, 165.129 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, 51, 35)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 35)  
}
```

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, 51, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 21.842, 165.129 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, 51, 35) }
```

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

```
.border{ border-color:rgb(0, 51, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 51, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 35); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 51, 35); box-shadow:4px  
4px 4px 4px rgb(0, 51, 35) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 21.842, 165.129 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 51, 35) }
```

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

```
.background{ background-color: rgb(0, 51,  
35) }
```

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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