

Converting Colors

CIE LCh(18, 22.230, 163.142)

Have a look what the booklet for
CIELCh(18, 22.230, 163.142)
contains.

CIELCh(18, 22.150, 163.377)	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(18, 22.150, 163.377)

Conversions

Conversions Part 1

Format	Color
Hex	003322
RGB	0, 51, 34
RGB Percent	0%, 20%, 13%
CMY	0.9987, 0.7986, 0.8654
CMYK	0.99, 0.00, 0.33, 0.80
HSL	160°, 99%, 10%
HSV	160°, 99%, 20%
XYZ	1.4968, 2.5180, 1.9453
YIQ	33.8130, -24.9390, -16.0990

Conversions

Conversions Part 2

Format	Color
RYB	0, 31, 51
Decimal	13090
CIELab	18.00, -21.22, 6.34
CIELCh	18, 22.150, 163.377
Yxy	2.5180, 0.2511, 0.4225
Android (android.graphics.Color)	4278203170 (0xFF003322)
YUV	33.8130, 0.0922, -29.6540
Hunter-Lab	15.8683, -10.9322, 3.8396

Details

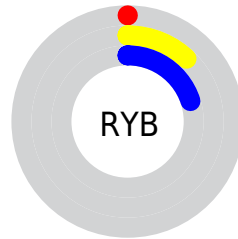
The CIELCh color **18, 22.150, 163.377** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 26.711, 6.641**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 22.295, 163.171**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 22.267, 163.318**, and if you desaturate by 10%, it is **18, 20.349, 164.420**.

Distribution



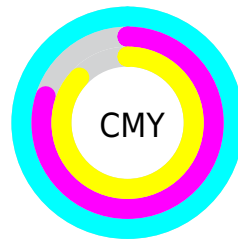
- Red (0%)
- Green (20%)
- Blue (13%)



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



- Cyan (99%)
- Magenta (0%)
- Yellow (33%)
- Black (80%)





- Cyan (100%)
- Magenta (80%)
- Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 22.150, 163.377 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, 22.150, 163.377 by changing the saturation by 10% instead.

 18, 22.150,
163.377

 18, 22.150,
163.377


 100, 22.150,
163.377


 8, 22.150, 163.377

 38, 22.150,
163.377

 0, 22.150, 163.377

 48, 22.150,
163.377

 58, 22.150,
163.377


 68, 22.150,
163.377


 78, 22.150,
163.377


 88, 22.150,


163.377


 98, 22.150,
163.377


 18, 22.150,
163.377


 18, 22.150,
163.377


 18, 22.267,
163.318

 18, 20.349,
164.420

 18, 18.612,
165.714

 19, 16.768,
167.041

 19, 14.724,
168.249

 19, 12.504,
169.352

■ 20, 10.139,
170.364

■ 20, 7.660, 171.302

■ 20, 5.097, 172.179

■ 21, 2.478, 173.026

Harmonies

Complementary

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



18, 22.150, 163.377



7, 26.711, 6.641

Rectangle

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



18, 22.150, 163.377



18, 22.150, 213.377



18, 22.150, 343.377



18, 22.150, 33.377

Sweetspot

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



18, 22.150, 163.376



26, 9.672, 171.105



18, 33.815, 132.067



12, 6.450, 171.042



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, 22.150, 163.376



24, 26.735, 162.149



16, 14.103, 219.652



9, 1.454, 173.126



33, 33.266, 161.050



77, 65.446, 159.027

Inverse Universe

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



7, 26.711, 6.641



11, 32.196, 10.793



8, 24.459, 30.301



8, 1.481, 354.225



17, 39.588, 13.560



46, 76.651, 18.665

Previews

White Background



This preview shows how the CIELCh color 18, 22.150, 163.377 looks on a white background.

Color Contrast Check

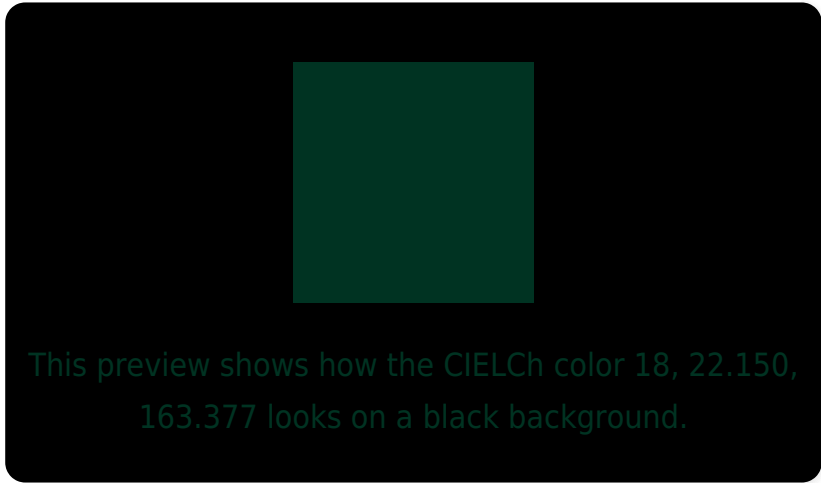
Large Text (above 18pt) WCAG AA ✓ Pass

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, 22.150, 163.377

Background



This preview shows how black text looks on a background with the CIELCh color 18, 22.150, 163.377.



This preview shows how white text looks on a background with the CIELCh color 18, 22.150, 163.377.

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

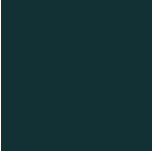
18, 22.150, 163.377

Protanopia

18, 9.672, 98.442

Deuteranopia

18, 6.700, 65.466



Tritanopia
18, 11.649, 211.138

Trichromacy



Original Color
18, 22.150, 163.377

Protanomaly
18, 12.926, 144.209

Deuteranomaly
17, 9.881, 147.355

Tritanomaly
18, 14.450, 185.486

Monochromacy



Original Color
18, 22.150, 163.377

Achromatopsia
13, 0.003, 296.813

Achromatomaly
14, 9.333, 170.087

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 22.150, 163.377 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, 34)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 34)  
}
```

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, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 22.150, 163.377 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, 34) }
```

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

```
.border{ border-color:rgb(0, 51, 34) }
```

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, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 34); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 51, 34); box-shadow:4px  
4px 4px 4px rgb(0, 51, 34) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 22.150, 163.377 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, 34) }
```

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

```
.background{ background-color: rgb(0, 51,  
34) }
```

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