

Converting Colors

CIELCh(19, 31.164, 172.985)

Have a look what the booklet for
CIELCh(19, 31.164, 172.985)
contains.

CIELCh(20, 22.462, 166.454)	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(20, 22.462, 166.454)

Conversions

Conversions Part 1

Format	Color
Hex	003828
RGB	0, 56, 40
RGB Percent	0%, 22%, 16%
CMY	0.9997, 0.7801, 0.8429
CMYK	1.00, 0.00, 0.29, 0.78
HSL	163°, 100%, 11%
HSV	163°, 100%, 22%
XYZ	1.8025, 2.9891, 2.4951
YIQ	37.4320, -28.2400, -16.8480

Conversions

Conversions Part 2

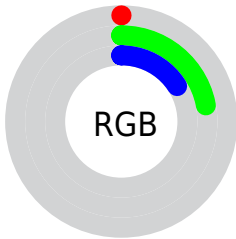
Format	Color
RYB	0, 33, 56
Decimal	14376
CIELab	20.00, -21.84, 5.26
CIELCh	20, 22.462, 166.454
Yxy	2.9891, 0.2474, 0.4102
Android (android.graphics.Color)	4278204456 (0xFF003828)
YUV	37.4320, 1.2660, -32.8279
Hunter-Lab	17.2889, -11.6460, 3.5455

Details

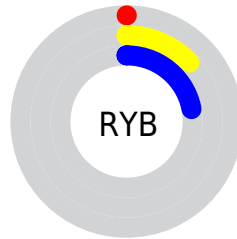
The CIELCh color **20, 22.462, 166.454** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **8, 28.752, 11.129**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 22.831, 166.204**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **20, 22.484, 166.440**, and if you desaturate by 10%, it is **20, 20.763, 167.567**.

Distribution



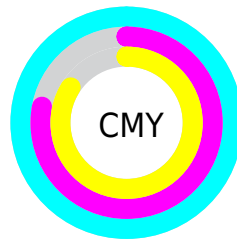
- Red (0%)
- Green (22%)
- Blue (16%)



- Red (0%)
- Yellow (13%)
- Blue (22%)



- Cyan (100%)
- Magenta (0%)
- Yellow (29%)
- Black (78%)



- Cyan (100%)
- Magenta (78%)
- Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 22.462, 166.454 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 20, 22.462, 166.454 by changing the saturation by 10% instead.

 20, 22.462,
166.454


 20, 22.462,
166.454

 100, 22.462,
166.454

 10, 22.462,
166.454


 40, 22.462,
166.454

 0, 22.462, 166.454

 50, 22.462,
166.454

 60, 22.462,
166.454

 70, 22.462,
166.454

 80, 22.462,
166.454

 90, 22.462,

166.454

■ 20, 22.462,
166.454

■ 20, 22.462,
166.454

■ 20, 22.484,
166.440

■ 20, 20.763,
167.567

■ 20, 19.119,
168.903

■ 21, 17.321,
170.225

■ 21, 15.293,
171.429

■ 21, 13.061,
172.533

■ 22, 10.655,
173.551

■ 22, 8.109, 174.498

■ 22, 5.458, 175.388

■ 23, 2.733, 176.250

Harmonies

Complementary

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



20, 22.462, 166.454



8, 28.752, 11.129

Rectangle

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



20, 22.462, 166.454



20, 22.462, 216.454



20, 22.462, 346.454



20, 22.462, 36.454

Sweetspot

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



20, 22.462, 166.453



29, 10.240, 174.346



20, 37.126, 132.682



14, 7.039, 174.215



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



20, 22.462, 166.453



27, 27.402, 165.325



16, 14.841, 229.453



10, 1.535, 176.386



34, 32.103, 164.606



78, 62.166, 162.740

Inverse Universe

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



8, 28.752, 11.129



13, 35.064, 15.979



10, 26.165, 35.057



9, 1.569, 357.535



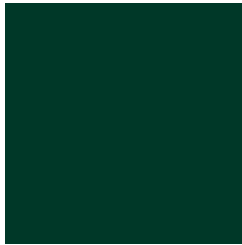
17, 40.971, 18.034



46, 79.132, 23.089

Previews

White Background



This preview shows how the CIELCh color 20, 22.462, 166.454 looks on a white background.

Color Contrast Check

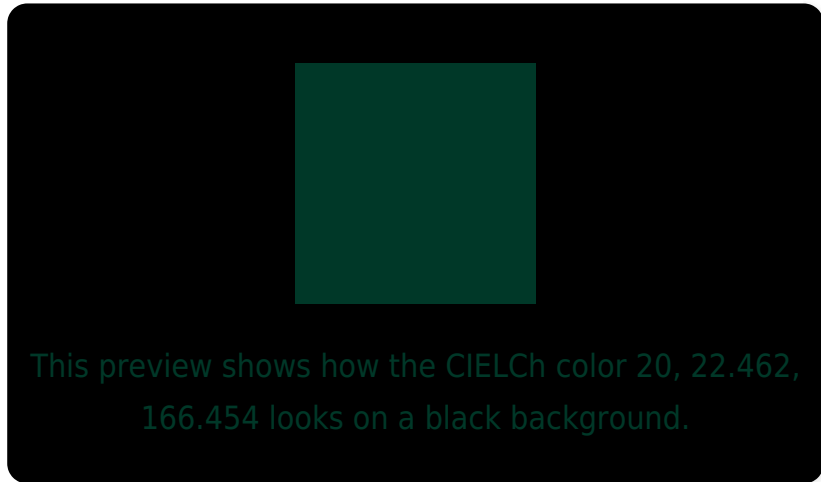
Large Text (above 18pt) WCAG AA ✓ Pass

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 20, 22.462, 166.454

Background



This preview shows how black text looks on a background with the CIELCh color 20, 22.462, 166.454.



This preview shows how white text looks on a background with the CIELCh color 20, 22.462, 166.454.

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

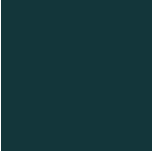
20, 22.462, 166.454

Protanopia

20, 8.233, 97.593

Deuteranopia

20, 5.637, 56.785



Tritanopia
20, 12.747, 209.657

Trichromacy



Original Color
20, 22.462, 166.454

Protanomaly
20, 13.055, 150.401

Deuteranomaly
19, 9.026, 154.823

Tritanomaly
20, 15.669, 186.451

Monochromacy



Original Color
20, 22.462, 166.454

Achromatopsia
15, 0.003, 296.813

Achromatomaly
17, 10.268, 173.099

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 22.462, 166.454 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, 56, 40)` looks like.

```
.text, #text, p{  
    color:rgb(0, 56, 40)  
}
```

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, 56, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 56, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 22.462, 166.454 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, 56, 40) }
```

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

```
.border{ border-color:rgb(0, 56, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 56, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 56, 40); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 56, 40); box-shadow:4px  
4px 4px 4px rgb(0, 56, 40) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 22.462, 166.454 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 56, 40) }
```

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

```
.background{ background-color: rgb(0, 56,  
40) }
```

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