

Converting Colors

CIELCh(16, 75.071, 179.921)

Have a look what the booklet for
CIELCh(16, 75.071, 179.921)
contains.

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Color

CIELCh(20, 23.969, 162.838)

Conversions

Conversions Part 1

Format	Color
Hex	003825
RGB	0, 56, 37
RGB Percent	0%, 22%, 15%
CMY	1.0000, 0.7792, 0.8535
CMYK	1.00, 0.00, 0.34, 0.78
HSL	160°, 100%, 11%
HSV	160°, 100%, 22%
XYZ	1.7596, 2.9891, 2.2640
YIQ	37.0900, -27.2770, -17.7810

Conversions

Conversions Part 2

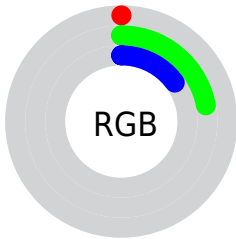
Format	Color
RYB	0, 34, 56
Decimal	14373
CIELab	20.00, -22.90, 7.07
CIELCh	20, 23.969, 162.838
Yxy	2.9891, 0.2509, 0.4262
Android (android.graphics.Color)	4278204453 (0xFF003825)
YUV	37.0900, -0.0444, -32.5279
Hunter-Lab	17.2889, -12.0882, 4.3382

Details

The CIELCh color **20, 23.969, 162.838** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **8, 28.825, 8.051**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 23.996, 162.654**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **20, 23.842, 162.672**, and if you desaturate by 10%, it is **20, 21.984, 163.820**.

Distribution



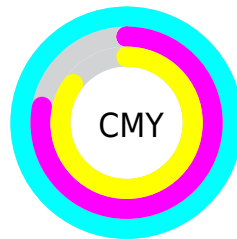
- Red (0%)
- Green (22%)
- Blue (15%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (34%)
- Black (78%)





- Cyan (100%)
- Magenta (78%)
- Yellow (85%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 23.969, 162.838 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, 23.969, 162.838 by changing the saturation by 10% instead.

 20, 23.969,
162.838


 20, 23.969,
162.838


 100, 23.969,
162.838


 10, 23.969,
162.838


 40, 23.969,
162.838

 0, 23.969, 162.838

 50, 23.969,
162.838

 60, 23.969,
162.838

 70, 23.969,
162.838

 80, 23.969,
162.838

 90, 23.969,

162.838

■ 20, 23.969,
162.838

■ 20, 23.969,
162.838

■ 20, 23.842,
162.672

■ 20, 21.984,
163.820

■ 20, 20.181,
165.214

■ 21, 18.229,
166.596

■ 21, 16.051,
167.851

■ 21, 13.675,
168.993

■ 22, 11.133,
170.039

■ 22, 8.461, 171.005

■ 23, 5.694, 171.905

■ 23, 2.863, 172.767

Harmonies

Complementary

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



20, 23.969, 162.838



8, 28.825, 8.051

Rectangle

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



20, 23.969, 162.838



20, 23.969, 212.838



20, 23.969, 342.838



20, 23.969, 32.838

Sweetspot

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



20, 23.842, 162.672



29, 10.608, 170.864



20, 36.804, 131.462



14, 7.294, 170.732



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, 23.842, 162.672



27, 29.044, 161.513



17, 14.995, 220.218



10, 1.582, 172.914



34, 34.083, 160.757



78, 66.275, 158.803

Inverse Universe

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



8, 28.825, 8.051



13, 34.682, 11.675



9, 27.048, 32.241



9, 1.612, 354.061



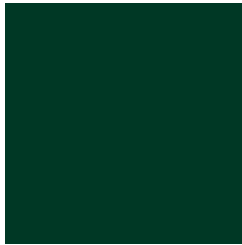
17, 40.366, 13.533



46, 77.254, 18.444

Previews

White Background



This preview shows how the CIELCh color 20, 23.969, 162.838 looks on a white background.

Color Contrast Check

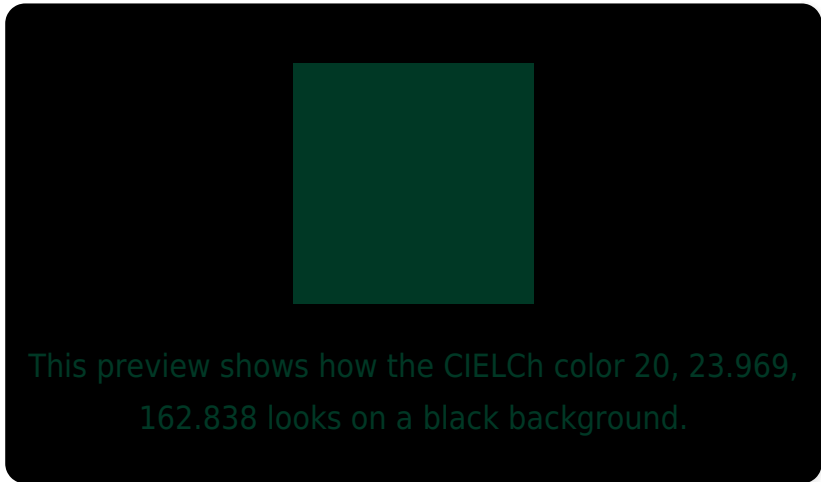
Large Text (above 18pt) WCAG AA ✓ Pass

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, 23.969, 162.838

Background



This preview shows how black text looks on a background with the CIELCh color 20, 23.969, 162.838.



This preview shows how white text looks on a background with the CIELCh color 20, 23.969, 162.838.

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

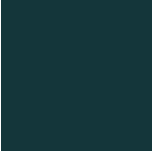
20, 23.822, 162.504

Protanopia

20, 10.304, 96.198

Deuteranopia

20, 7.470, 66.101



Tritanopia
20, 12.509, 209.935

Trichromacy



Original Color
20, 23.822, 162.504

Protanomaly
20, 14.380, 143.917

Deuteranomaly
19, 10.588, 146.989

Tritanomaly
20, 15.750, 183.949

Monochromacy



Original Color
20, 23.822, 162.504

Achromatopsia
15, 0.003, 296.813

Achromatomaly
16, 10.332, 168.840

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 23.969, 162.838 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, 37)` looks like.

```
.text, #text, p{  
    color:rgb(0, 56, 37)  
}
```

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, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 56, 37) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 23.969, 162.838 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, 37) }
```

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

```
.border{ border-color:rgb(0, 56, 37) }
```

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, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 56, 37); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 56, 37); box-shadow:4px  
4px 4px 4px rgb(0, 56, 37) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 23.969, 162.838 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, 37) }
```

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

```
.background{ background-color: rgb(0, 56,  
37) }
```

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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