

Converting Colors

CIELCh(20, 22.305, 159.250)

Have a look what the booklet for
CIELCh(20, 22.305, 159.250)
contains.

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Color

CIELCh(20, 22.564, 158.712)

Conversions

Conversions Part 1

Format	Color
Hex	0A3824
RGB	10, 56, 36
RGB Percent	4%, 22%, 14%
CMY	0.9622, 0.7815, 0.8598
CMYK	0.83, 0.00, 0.36, 0.78
HSL	154°, 71%, 13%
HSV	154°, 83%, 22%
XYZ	1.8356, 2.9891, 2.1285
YIQ	39.9660, -20.9960, -15.9720

Conversions

Conversions Part 2

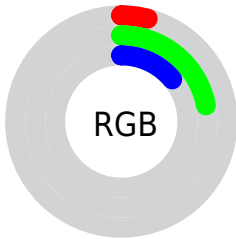
Format	Color
R_{YB}	10, 39, 56
Decimal	669732
CIE _{Lab}	20.00, -21.02, 8.19
CIE _{LCh}	20, 22.564, 158.712
Yxy	2.9891, 0.2640, 0.4299
Android (android.graphics.Color)	4278859812 (0xFF0A3824)
YUV	39.9660, -1.9552, -26.2802
Hunter-Lab	17.2889, -11.3036, 4.8027

Details

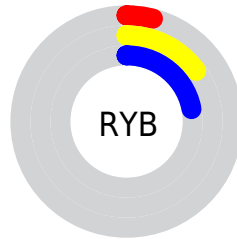
The CIELCh color **20, 22.564, 158.712** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **10, 24.561, 357.665**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 22.183, 159.686**, and **0, 0.492, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **20, 24.665, 157.362**, and if you desaturate by 10%, it is **20, 20.394, 160.175**.

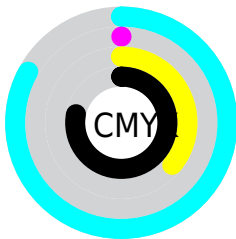
Distribution



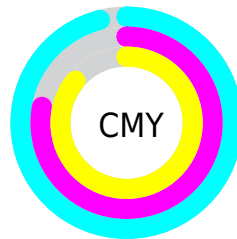
- Red (4%)
- Green (22%)
- Blue (14%)



- Red (4%)
- Yellow (15%)
- Blue (22%)



- Cyan (83%)
- Magenta (0%)
- Yellow (36%)
- Black (78%)





- Cyan (96%)
- Magenta (78%)
- Yellow (86%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 22.564, 158.712 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, 22.564, 158.712 by changing the saturation by 10% instead.

 20, 22.564,
158.712

 20, 22.564,
158.712


 100, 22.564,
158.712


 10, 22.564,
158.712


 40, 22.564,
158.712

 0, 22.564, 158.712

 50, 22.564,
158.712

 60, 22.564,
158.712

 70, 22.564,
158.712

 80, 22.564,
158.712

 90, 22.564,

158.712

■ 20, 22.564,
158.712

■ 20, 22.564,
158.712

■ 20, 24.665,
157.362

■ 20, 20.394,
160.175

■ 20, 26.230,
156.553

■ 21, 18.001,
161.496

■ 21, 15.415,
162.688

■ 21, 12.669,
163.767

■ 22, 9.802, 164.748

■ 22, 6.849, 165.648

■ 23, 3.845, 166.488

■ 23, 0.818, 167.414

■ 24, 2.207, 347.824

Harmonies

Complementary

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



20, 22.564, 158.712



10, 24.561, 357.665

Rectangle

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



20, 22.564, 158.712



20, 22.564, 208.712



20, 22.564, 338.712



20, 22.564, 28.712

Sweetspot

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



20, 22.564, 158.712



29, 9.262, 165.346



20, 30.870, 128.231



13, 6.189, 165.274



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



20, 22.564, 158.712



26, 31.251, 155.556



20, 14.555, 203.075



10, 1.685, 166.849



34, 38.021, 154.487



77, 74.372, 152.463

Inverse Universe

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



10, 24.561, 357.665



12, 33.543, 2.679



10, 24.373, 27.935



9, 1.708, 347.950



18, 40.047, 4.749



47, 75.413, 9.030

Previews

White Background



This preview shows how the CIELCh color 20, 22.564, 158.712 looks on a white background.

Color Contrast Check

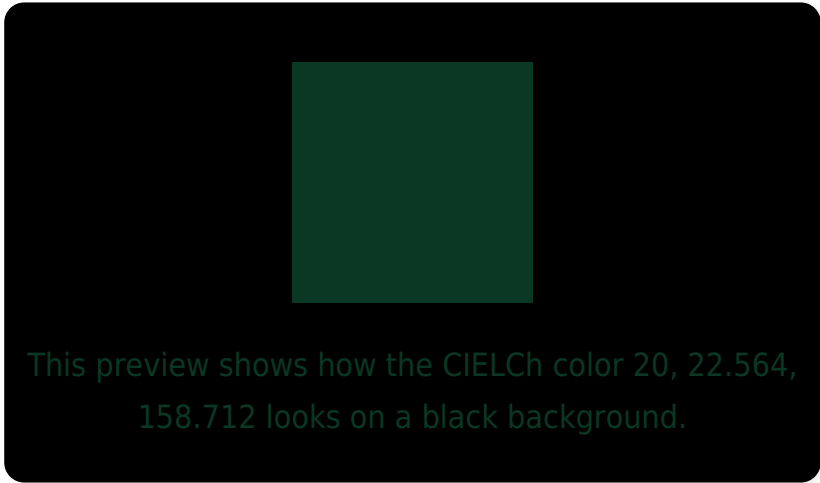
Large Text (above 18pt) WCAG AA ✓ Pass

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

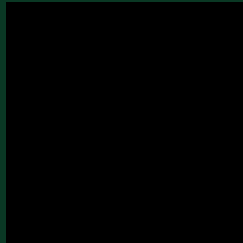
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 22.564, 158.712

Background



This preview shows how black text looks on a background with the CIELCh color 20, 22.564, 158.712.



This preview shows how white text looks on a background with the CIELCh color 20, 22.564, 158.712.

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, 22.564, 158.712

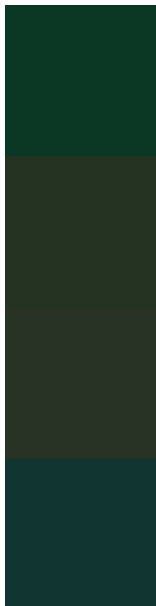
Protanopia
20, 10.957, 96.678

Deuteranopia
20, 8.001, 69.096



Tritanopia
20, 11.991, 210.595

Trichromacy



Original Color
20, 22.564, 158.712

Protanomaly
20, 13.375, 138.018

Deuteranomaly
19, 10.087, 136.837

Tritanomaly
20, 14.617, 183.107

Monochromacy



Original Color
20, 22.564, 158.712

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 9.676, 162.411

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 22.564, 158.712 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(10, 56, 36)` looks like.

```
.text, #text, p{  
    color:rgb(10, 56, 36)  
}
```

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(10, 56, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 56, 36) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 22.564, 158.712 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(10, 56, 36) }
```

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

```
.border{ border-color:rgb(10, 56, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 56, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 56, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 56, 36);  
box-shadow:4px 4px 4px 4px rgb(10, 56, 36)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 22.564, 158.712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 56, 36) }
```

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

```
.background{ background-color: rgb(10, 56,  
36) }
```

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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