

Converting Colors

CIELCh(18, 20.621, 159.916)

Have a look what the booklet for
CIELCh(18, 20.621, 159.916)
contains.

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Color

CIELCh(18, 20.875, 159.290)

Conversions

Conversions Part 1

Format	Color
Hex	093321
RGB	9, 51, 33
RGB Percent	4%, 20%, 13%
CMY	0.9655, 0.8007, 0.8712
CMYK	0.83, 0.00, 0.35, 0.80
HSL	154°, 71%, 12%
HSV	154°, 83%, 20%
XYZ	1.5585, 2.5180, 1.8309
YIQ	36.3900, -19.2540, -14.5020

Conversions

Conversions Part 2

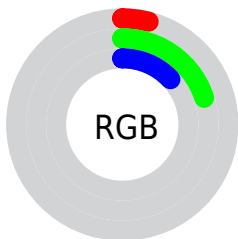
Format	Color
R_YB	9, 36, 51
Decimal	602913
CIE Lab	18.00, -19.53, 7.38
CIE LCh	18, 20.875, 159.290
Yxy	2.5180, 0.2638, 0.4263
Android (android.graphics.Color)	4278792993 (0xFF093321)
YUV	36.3900, -1.6713, -24.0210
Hunter-Lab	15.8683, -10.2385, 4.2670

Details

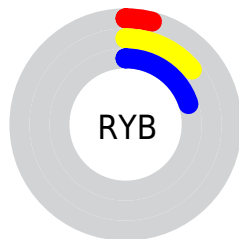
The CIELCh color **18, 20.875, 159.290** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **9, 22.841, 357.705**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 21.092, 159.193**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 22.891, 158.072**, and if you desaturate by 10%, it is **18, 18.843, 160.690**.

Distribution



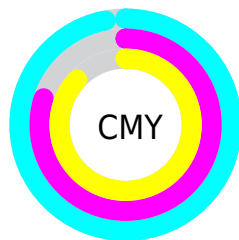
- Red (4%)
- Green (20%)
- Blue (13%)



- Red (4%)
- Yellow (14%)
- Blue (20%)



- Cyan (83%)
- Magenta (0%)
- Yellow (35%)
- Black (80%)



- Cyan (97%)
- Magenta (80%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 20.875, 159.290 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, 20.875, 159.290 by changing the saturation by 10% instead.

■ 18, 20.875,
159.290

■ 18, 20.875,
159.290

■ 100, 20.875,
159.290

■ 8, 20.875, 159.290

■ 38, 20.875,
159.290

■ 0, 20.875, 159.290

■ 48, 20.875,
159.290


■ 58, 20.875,
159.290


■ 68, 20.875,
159.290


■ 78, 20.875,
159.290


■ 88, 20.875,


159.290


 98, 20.875,
159.290


 18, 20.875,
159.290


 18, 20.875,
159.290


 18, 22.891,
158.072

 18, 18.843,
160.690

 18, 24.399,
157.354

 18, 16.619,
161.968

 19, 14.222,
163.124

 19, 11.684,
164.174

 20, 9.037, 165.131

■ 20, 6.314, 166.012

■ 20, 3.544, 166.836

■ 21, 0.753, 167.755

■ 22, 2.036, 348.146

Harmonies

Complementary

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



18, 20.875, 159.290



9, 22.841, 357.705

Rectangle

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



18, 20.875, 159.290



18, 20.875, 209.290



18, 20.875, 339.290



18, 20.875, 29.290

Sweetspot

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



18, 20.875, 159.290



27, 8.672, 165.701



18, 28.590, 129.178



12, 5.786, 165.651



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, 20.875, 159.290



24, 29.400, 156.188



18, 13.390, 205.315



9, 1.546, 167.202



33, 36.995, 154.910



77, 73.229, 152.810

Inverse Universe

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



9, 22.841, 357.705



11, 31.916, 2.568



9, 21.968, 26.943



8, 1.566, 348.261



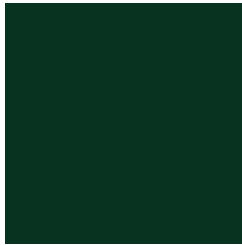
17, 39.265, 5.059



46, 74.789, 9.542

Previews

White Background



This preview shows how the CIELCh color 18, 20.875, 159.290 looks on a white background.

Color Contrast Check

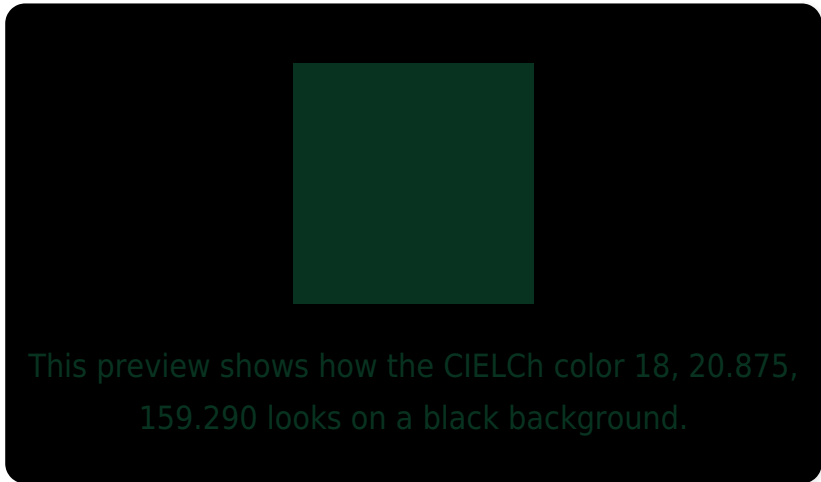
Large Text (above 18pt) WCAG AA ✓ Pass

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

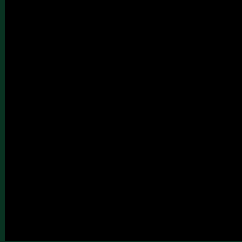
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 20.875, 159.290

Background



This preview shows how black text looks on a background with the CIELCh color 18, 20.875, 159.290.



This preview shows how white text looks on a background with the CIELCh color 18, 20.875, 159.290.

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, 20.875, 159.290

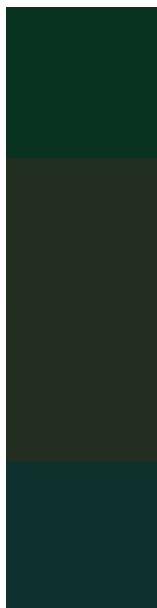
Protanopia
18, 9.807, 95.345

Deuteranopia
18, 7.109, 62.436



Tritanopia
18, 11.119, 211.927

Trichromacy



Original Color
18, 20.875, 159.290

Protanomaly
17, 11.905, 137.436

Deuteranomaly
17, 8.805, 138.355

Tritanomaly
18, 13.503, 184.818

Monochromacy



Original Color
18, 20.875, 159.290

Achromatopsia
14, 0.003, 296.813

Achromatomaly
15, 8.234, 166.595

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 20.875, 159.290 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(9, 51, 33)` looks like.

```
.text, #text, p{  
    color:rgb(9, 51, 33)  
}
```

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(9, 51, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 51, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 20.875, 159.290 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(9, 51, 33) }
```

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

```
.border{ border-color:rgb(9, 51, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 51, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 51, 33); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 51, 33); box-shadow:4px  
4px 4px 4px rgb(9, 51, 33) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 20.875, 159.290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 51, 33) }
```

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

```
.background{ background-color: rgb(9, 51,  
33) }
```

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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