

Converting Colors

CIELCh(20, 18.622, 170.984)

Have a look what the booklet for
CIELCh(20, 18.622, 170.984)
contains.

CIELCh(20, 18.391, 171.940)	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, 18.391, 171.940)

Conversions

Conversions Part 1

Format	Color
Hex	0A372C
RGB	10, 55, 44
RGB Percent	4%, 22%, 17%
CMY	0.9603, 0.7839, 0.8271
CMYK	0.82, 0.00, 0.20, 0.78
HSL	165°, 69%, 13%
HSV	165°, 82%, 22%
XYZ	1.9536, 2.9891, 2.8656
YIQ	40.2910, -23.2890, -12.9610

Conversions

Conversions Part 2

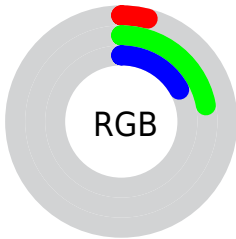
Format	Color
R_{YB}	10, 36, 55
Decimal	669484
CIE _{Lab}	20.00, -18.21, 2.58
CIE _{LCh}	20, 18.391, 171.940
Yxy	2.9891, 0.2502, 0.3828
Android (android.graphics.Color)	4278859564 (0xFF0A372C)
YUV	40.2910, 1.8285, -26.5652
Hunter-Lab	17.2889, -10.0853, 2.2751

Details

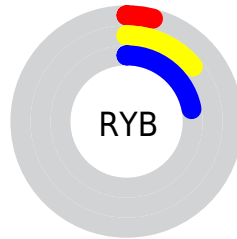
The CIELCh color **20, 18.391, 171.940** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **10, 23.614, 11.927**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 18.238, 171.339**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **20, 19.910, 170.721**, and if you desaturate by 10%, it is **20, 16.775, 173.205**.

Distribution



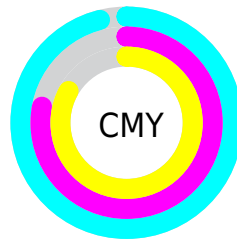
- Red (4%)
- Green (22%)
- Blue (17%)



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



- Cyan (82%)
- Magenta (0%)
- Yellow (20%)
- Black (78%)





- Cyan (96%)
- Magenta (78%)
- Yellow (83%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 18.391, 171.940 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, 18.391, 171.940 by changing the saturation by 10% instead.

 20, 18.391,
171.940


 20, 18.391,
171.940


 100, 18.391,
171.940


 10, 18.391,
171.940


 40, 18.391,
171.940

 0, 18.391, 171.940

 50, 18.391,
171.940

 60, 18.391,
171.940

 70, 18.391,
171.940

 80, 18.391,
171.940

 90, 18.391,

171.940

■ 20, 18.391,
171.940

■ 20, 18.391,
171.940

■ 20, 19.910,
170.721

■ 20, 16.775,
173.205

■ 20, 21.228,
169.857

■ 20, 14.923,
174.363

■ 21, 12.860,
175.430

■ 21, 10.613,
176.418

■ 22, 8.216, 177.344

■ 22, 5.699, 178.218

■ 22, 3.096, 179.066

■ 23, 0.434, 180.242

■ 24, 2.263, 0.434

Harmonies

Complementary

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



20, 18.391, 171.940



10, 23.614, 11.927

Rectangle

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



20, 18.391, 171.940



20, 18.391, 221.940



20, 18.391, 351.940



20, 18.391, 41.940

Sweetspot

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



20, 18.391, 171.939



29, 7.822, 177.913



20, 32.078, 133.873



13, 5.259, 177.830



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, 18.391, 171.939



26, 25.146, 169.109



16, 13.117, 234.908



10, 1.502, 179.348



34, 30.564, 168.065



78, 58.957, 166.305

Inverse Universe

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



10, 23.614, 11.927



12, 33.923, 18.158



12, 21.079, 41.326



9, 1.540, 0.482



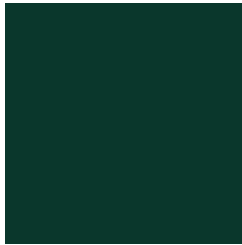
17, 41.668, 21.553



46, 81.042, 26.610

Previews

White Background



This preview shows how the CIELCh color 20, 18.391, 171.940 looks on a white background.

Color Contrast Check

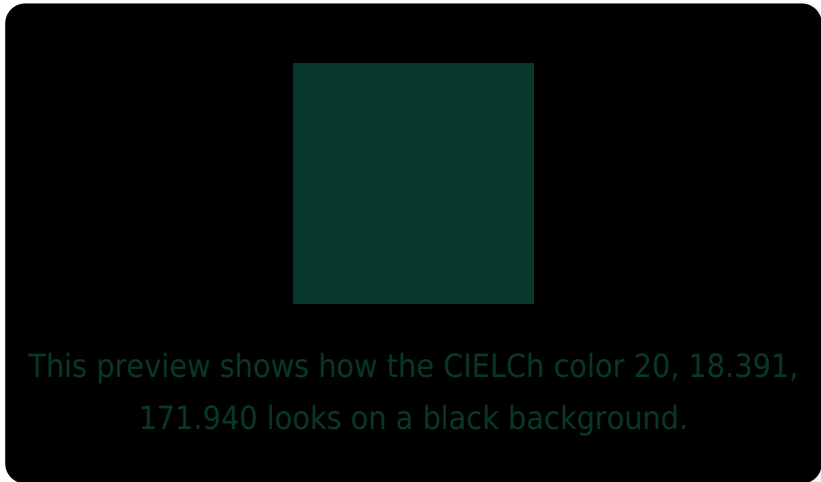
Large Text (above 18pt) WCAG AA ✓ Pass

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

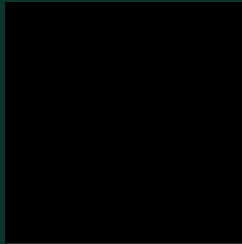
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 18.391, 171.940

Background



This preview shows how black text looks on a background with the CIELCh color 20, 18.391, 171.940.



This preview shows how white text looks on a background with the CIELCh color 20, 18.391, 171.940.

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](#).

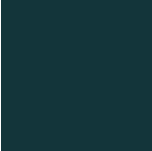
Dichromacy



Original Color
20, 18.391, 171.940

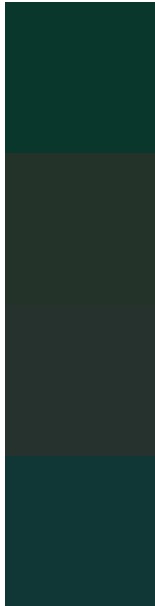
Protanopia
20, 4.968, 91.662

Deuteranopia
20, 3.447, 31.331



Tritanopia
20, 12.506, 213.263

Trichromacy



Original Color
20, 18.391, 171.940

Protanomaly
20, 9.326, 156.576

Deuteranomaly
20, 6.525, 166.571

Tritanomaly
20, 13.908, 194.015

Monochromacy



Original Color
20, 18.391, 171.940

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 7.782, 176.734

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 18.391, 171.940 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, 55, 44)` looks like.

```
.text, #text, p{  
    color:rgb(10, 55, 44)  
}
```

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, 55, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 55, 44) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 18.391, 171.940 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, 55, 44) }
```

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

```
.border{ border-color:rgb(10, 55, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 55, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 55, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 55, 44);  
box-shadow:4px 4px 4px 4px rgb(10, 55, 44)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 18.391, 171.940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 55, 44) }
```

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

```
.background{ background-color: rgb(10, 55,  
44) }
```

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