

Converting Colors

CIELCh(19, 13.541, 220.335)

Have a look what the booklet for
CIELCh(19, 13.541, 220.335)
contains.

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Color

CIELCh(19, 13.658, 221.190)

Conversions

Conversions Part 1

Format	Color
Hex	0C333B
RGB	12, 51, 59
RGB Percent	5%, 20%, 23%
CMY	0.9536, 0.8005, 0.7692
CMYK	0.80, 0.14, 0.00, 0.77
HSL	190°, 67%, 14%
HSV	190°, 80%, 23%
XYZ	2.1127, 2.7468, 4.5374
YIQ	40.2510, -25.8120, -5.7800

Conversions

Conversions Part 2

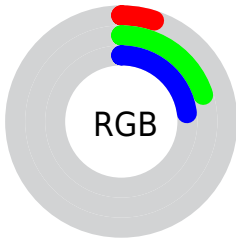
Format	Color
R_{YB}	12, 33, 59
Decimal	799547
CIE _{Lab}	19.00, -10.28, -8.99
CIE _{LCh}	19, 13.658, 221.190
Yxy	2.7468, 0.2248, 0.2923
Android (android.graphics.Color)	4278989627 (0xFF0C333B)
YUV	40.2510, 9.2433, -24.7761
Hunter-Lab	16.5735, -6.2496, -4.6307

Details

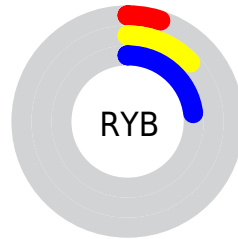
The CIELCh color **19, 13.658, 221.190** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **12, 23.240, 36.546**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 13.520, 222.279**, and **1, 7.046, 287.923** is the 20% darker color. If you saturate the color by 10%, you get **18, 14.475, 222.781**, and if you desaturate by 10%, it is **20, 12.663, 219.793**.

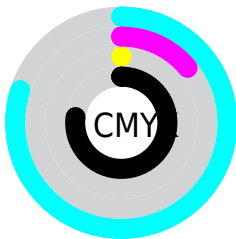
Distribution



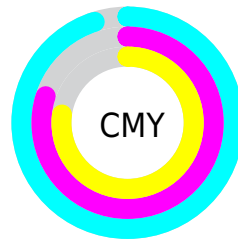
- Red (5%)
- Green (20%)
- Blue (23%)



- Red (5%)
- Yellow (13%)
- Blue (23%)



- Cyan (80%)
- Magenta (14%)
- Yellow (0%)
- Black (77%)



- Cyan (95%)
- Magenta (80%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 13.658, 221.190 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 19, 13.658, 221.190 by changing the saturation by 10% instead.

■ 19, 13.658,
221.190

■ 19, 13.658,
221.190

■ 100, 13.658,
221.190

■ 9, 13.658, 221.190

■ 39, 13.658,
221.190

■ 0, 13.658, 221.190

■ 49, 13.658,
221.190


■ 59, 13.658,
221.190


■ 69, 13.658,
221.190


■ 79, 13.658,
221.190


■ 89, 13.658,


221.190


 99, 13.658,
221.190


 19, 13.658,
221.190


 19, 13.658,
221.190

 18, 14.475,
222.781

 20, 12.663,
219.793

 18, 15.332,
224.156

 20, 11.422,
218.693

 18, 15.340,
224.166

 21, 9.950, 217.846

 22, 8.270, 217.209

 22, 6.406, 216.748

 23, 4.387, 216.438

■ 24, 2.237, 216.277

■ 25, 0.019, 23.723

■ 26, 2.358, 35.911

Harmonies

Complementary

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



19, 13.658, 221.190



12, 23.240, 36.546

Rectangle

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



19, 13.658, 221.190



19, 13.658, 271.190



19, 13.658, 41.190



19, 13.658, 91.190

Sweetspot

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



19, 13.658, 221.189



30, 6.487, 216.582



21, 32.062, 142.404



14, 4.360, 216.619



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



19, 13.658, 221.189



24, 17.903, 224.917



11, 23.116, 285.884



11, 1.298, 216.271



30, 21.039, 226.661



69, 39.212, 229.450

Inverse Universe

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



12, 31.093, 333.987



15, 41.879, 335.269



19, 22.333, 81.547



10, 2.431, 329.909



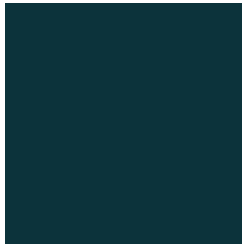
20, 49.310, 335.775



51, 90.971, 336.501

Previews

White Background



This preview shows how the CIELCh color 19, 13.658, 221.190 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



This preview shows how the CIELCh color 19, 13.658, 221.190 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

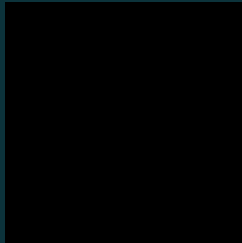
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

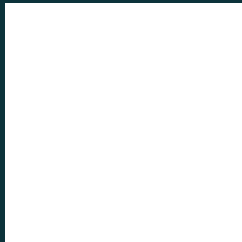
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 13.658, 221.190

Background



This preview shows how black text looks on a background with the CIELCh color 19, 13.658, 221.190.



This preview shows how white text looks on a background with the CIELCh color 19, 13.658, 221.190.

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
19, 13.658, 221.190

Protanopia
19, 6.212, 283.609

Deuteranopia
19, 9.637, 285.033



Tritanopia
19, 14.141, 211.153

Trichromacy



Original Color
19, 13.658, 221.190

Protanomaly
19, 8.295, 240.221

Deuteranomaly
19, 10.084, 253.852

Tritanomaly
19, 13.990, 214.346

Monochromacy



Original Color
19, 13.658, 221.190

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 6.293, 217.771

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 13.658, 221.190 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(12, 51, 59)` looks like.

```
.text, #text, p{  
    color:rgb(12, 51, 59)  
}
```

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(12, 51, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 51, 59) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 13.658, 221.190 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(12, 51, 59) }
```

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

```
.border{ border-color:rgb(12, 51, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 51, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 51, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 51, 59);  
box-shadow:4px 4px 4px 4px rgb(12, 51, 59)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 13.658, 221.190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 51, 59) }
```

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

```
.background{ background-color: rgb(12, 51,  
59) }
```

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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