

Converting Colors

CIELCh(21, 13.717, 199.776)

Have a look what the booklet for
CIELCh(21, 13.717, 199.776)
contains.

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Color

CIELCh(21, 13.682, 199.850)

Conversions

Conversions Part 1

Format	Color
Hex	123839
RGB	18, 56, 57
RGB Percent	7%, 22%, 22%
CMY	0.9297, 0.7806, 0.7767
CMYK	0.69, 0.02, 0.00, 0.78
HSL	182°, 52%, 15%
HSV	182°, 69%, 22%
XYZ	2.3964, 3.2451, 4.3629
YIQ	44.7520, -22.9690, -7.7450

Conversions

Conversions Part 2

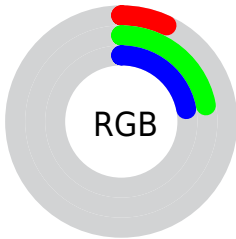
Format	Color
R_{YB}	18, 37, 57
Decimal	1194041
CIE _{Lab}	21.00, -12.87, -4.65
CIE _{LCh}	21, 13.682, 199.850
Yxy	3.2451, 0.2395, 0.3244
Android (android.graphics.Color)	4279384121 (0xFF123839)
YUV	44.7520, 6.0383, -23.4615
Hunter-Lab	18.0142, -7.7798, -1.7498

Details

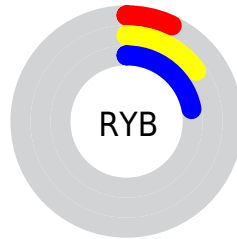
The CIELCh color **21, 13.682, 199.850** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **12, 21.261, 27.792**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 13.682, 200.352**, and **2, 3.402, 249.485** is the 20% darker color. If you saturate the color by 10%, you get **21, 14.796, 199.834**, and if you desaturate by 10%, it is **21, 12.299, 199.938**.

Distribution



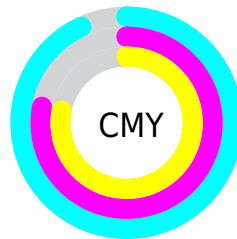
- Red (7%)
- Green (22%)
- Blue (22%)



- Red (7%)
- Yellow (15%)
- Blue (22%)



- Cyan (69%)
- Magenta (2%)
- Yellow (0%)
- Black (78%)



- Cyan (93%)
- Magenta (78%)
- Yellow (78%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 13.682, 199.850 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 21, 13.682, 199.850 by changing the saturation by 10% instead.

■ 21, 13.682,
199.850

■ 21, 13.682,
199.850

■ 100, 13.682,
199.850

■ 11, 13.682,
199.850

■ 41, 13.682,
199.850

■ 1, 13.682, 199.850

■ 51, 13.682,
199.850

■ 0, 13.682, 199.850

■ 61, 13.682,
199.850

■ 71, 13.682,
199.850

■ 81, 13.682,
199.850

■ 91, 13.682,

199.850

■ 21, 13.682,
199.850

■ 21, 13.682,
199.850

■ 21, 14.796,
199.834

■ 21, 12.299,
199.938

■ 21, 15.691,
199.879

■ 22, 10.662,
200.098

■ 20, 16.592,
199.901

■ 22, 8.797, 200.323

■ 22, 6.731, 200.606

■ 20, 16.730,
199.902

■ 23, 4.493, 200.946

■ 23, 2.113, 201.368

■ 24, 0.379, 21.055

■ 25, 2.959, 22.007

■ 25, 5.603, 22.492

Harmonies

Complementary

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



21, 13.682, 199.850



12, 21.261, 27.792

Rectangle

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



21, 13.682, 199.850



21, 13.682, 249.850



21, 13.682, 19.850



21, 13.682, 69.850

Sweetspot

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



21, 13.682, 199.848



30, 6.285, 200.820



20, 30.304, 139.783



14, 4.286, 200.793



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



21, 13.682, 199.848



27, 18.339, 199.875



14, 15.343, 269.348



10, 1.360, 201.378



34, 22.977, 200.198



78, 43.135, 200.530

Inverse Universe

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



13, 29.798, 328.174



17, 41.530, 328.716



17, 17.807, 69.603



9, 2.492, 325.495



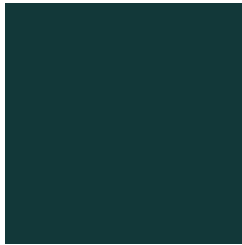
20, 53.770, 329.205



52, 101.055, 329.289

Previews

White Background



This preview shows how the CIELCh color 21, 13.682, 199.850 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 21, 13.682, 199.850 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

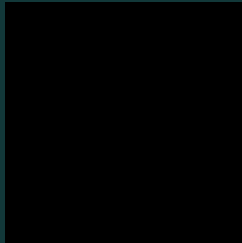
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 13.682, 199.850

Background



This preview shows how black text looks on a background with the CIELCh color 21, 13.682, 199.850.



This preview shows how white text looks on a background with the CIELCh color 21, 13.682, 199.850.

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

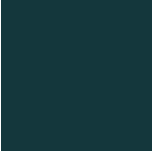
21, 13.682, 199.850

Protanopia

21, 2.089, 303.296

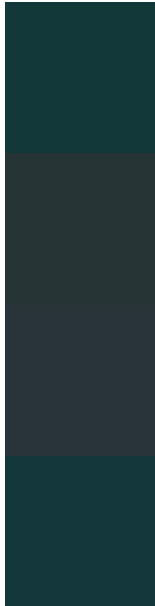
Deuteranopia

21, 6.263, 303.811



Tritanopia
21, 12.794, 212.793

Trichromacy



Original Color
21, 13.682, 199.850

Protanomaly
21, 5.715, 212.214

Deuteranomaly
21, 6.354, 238.630

Tritanomaly
21, 13.009, 209.345

Monochromacy



Original Color
21, 13.682, 199.850

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 6.120, 198.216

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 13.682, 199.850 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(18, 56, 57)` looks like.

```
.text, #text, p{  
    color:rgb(18, 56, 57)  
}
```

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(18, 56, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 56, 57) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 13.682, 199.850 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(18, 56, 57) }
```

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

```
.border{ border-color:rgb(18, 56, 57) }
```

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

Here you see how a box with a 4 pixel rgb(18, 56, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 56, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 56, 57);  
box-shadow:4px 4px 4px 4px rgb(18, 56, 57)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 13.682, 199.850 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 56, 57) }
```

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

```
.background{ background-color: rgb(18, 56,  
57) }
```

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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