

Converting Colors

CIELCh(7, 28.398, 197.703)

Have a look what the booklet for
CIELCh(7, 28.398, 197.703) contains.

CIELCh(10, 12.137, 196.480)	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(10, 12.137, 196.480)

Conversions

Conversions Part 1

Format	Color
Hex	002020
RGB	0, 32, 32
RGB Percent	0%, 13%, 13%
CMY	1.0000, 0.8752, 0.8752
CMYK	1.00, 0.00, 0.00, 0.88
HSL	180°, 100%, 6%
HSV	180°, 100%, 12%
XYZ	0.7681, 1.1260, 1.5308
YIQ	22.4320, -19.0720, -6.7840

Conversions

Conversions Part 2

Format	Color
RYB	0, 16, 32
Decimal	8224
CIELab	10.00, -11.64, -3.44
CIELCh	10, 12.137, 196.480
Yxy	1.1260, 0.2243, 0.3288
Android (android.graphics.Color)	4278198304 (0xFF002020)
YUV	22.4320, 4.7170, -19.6729
Hunter-Lab	10.6114, -5.6491, -1.1252

Details

The CIELCh color **10, 12.137, 196.480** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **3, 13.076, 19.396**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 11.988, 197.644**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **10, 12.086, 196.486**, and if you desaturate by 10%, it is **10, 11.099, 196.643**.

Distribution



- Red (0%)
- Green (13%)
- Blue (13%)



- Red (0%)
- Yellow (6%)
- Blue (13%)



- Cyan (100%)
- Magenta (0%)
- Yellow (0%)
- Black (88%)



- Cyan (100%)
- Magenta (88%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 12.137, 196.480 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 10, 12.137, 196.480 by changing the saturation by 10% instead.

■ 10, 12.137,
196.480

■ 10, 12.137,
196.480

■ 100, 12.137,
196.480

■ 0, 12.137, 196.480

■ 30, 12.137,
196.480

■ 40, 12.137,
196.480


■ 50, 12.137,
196.480


■ 60, 12.137,
196.480


■ 70, 12.137,
196.480

■ 80, 12.137,


196.480


 90, 12.137,
196.480

 10, 12.137,
196.480

 10, 12.137,
196.480

 10, 12.086,
196.486

 10, 11.099,
196.643

 10, 10.106,
196.861

 10, 9.139, 197.096

 11, 8.150, 197.340

 11, 7.034, 197.618

 11, 5.804, 197.930

■ 11, 4.471, 198.274

■ 12, 3.050, 198.654

■ 12, 1.555, 199.090

Harmonies

Complementary

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



10, 12.137, 196.480



3, 13.076, 19.396

Rectangle

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



10, 12.137, 196.480



10, 12.137, 246.480



10, 12.137, 16.480



10, 12.137, 66.480

Sweetspot

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



10, 12.086, 196.486



15, 5.500, 198.197



9, 22.856, 143.968



6, 2.877, 199.429



61, 0.008, 296.813



6, 0.002, 296.812

Same Dimension

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



10, 12.086, 196.486



14, 14.040, 196.368



4, 11.965, 267.492



4, 0.540, 199.532



30, 21.441, 196.365



75, 42.759, 196.363

Inverse Universe

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



3, 13.076, 19.396



4, 20.018, 19.460



6, 10.718, 57.064



4, 0.540, 19.269



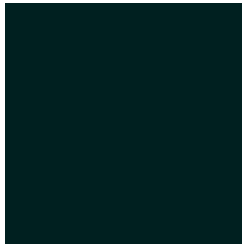
14, 40.357, 31.877



43, 89.209, 39.995

Previews

White Background



This preview shows how the CIELCh color 10, 12.137, 196.480 looks on a white background.

Color Contrast Check

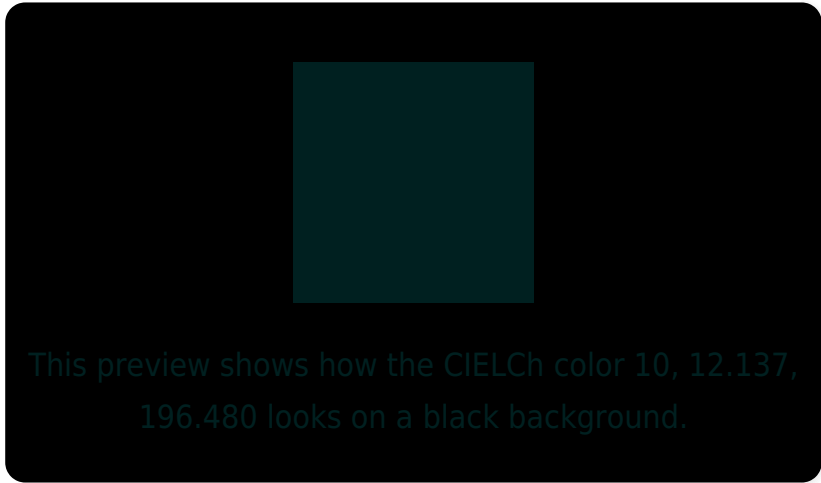
Large Text (above 18pt) WCAG AA ✓ Pass

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

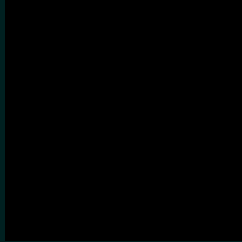
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 12.137, 196.480

Background



This preview shows how black text looks on a background with the CIELCh color 10, 12.137, 196.480.



This preview shows how white text looks on a background with the CIELCh color 10, 12.137, 196.480.

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
10, 12.137, 196.480

Protanopia
10, 1.561, 309.259

Deuteranopia
11, 3.718, 298.812



Tritanopia
10, 9.738, 210.393

Trichromacy



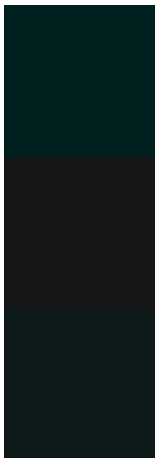
Original Color
10, 12.137, 196.480

Protanomaly
10, 5.162, 214.939

Deuteranomaly
10, 5.600, 230.418

Tritanomaly
10, 10.374, 205.176

Monochromacy



Original Color
10, 12.137, 196.480

Achromatopsia
7, 0.002, 296.812

Achromatomaly
8, 5.386, 198.465

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 12.137, 196.480 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(0, 32, 32)` looks like.

```
.text, #text, p{  
    color:rgb(0, 32, 32)  
}
```

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(0, 32, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 32, 32) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 12.137, 196.480 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(0, 32, 32) }
```

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

```
.border{ border-color:rgb(0, 32, 32) }
```

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

Here you see how a box with a 4 pixel rgb(0, 32, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 32, 32); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 32, 32); box-shadow:4px  
4px 4px 4px rgb(0, 32, 32) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 12.137, 196.480 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 32, 32) }
```

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

```
.background{ background-color: rgb(0, 32,  
32) }
```

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