

Converting Colors

CIELCh(16, 12.276, 196.890)

Have a look what the booklet for
CIELCh(16, 12.276, 196.890)
contains.

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Color

CIELCh(16, 12.501, 196.851)

Conversions

Conversions Part 1

Format	Color
Hex	0A2D2D
RGB	10, 45, 45
RGB Percent	4%, 18%, 18%
CMY	0.9588, 0.8252, 0.8251
CMYK	0.76, 0.00, 0.00, 0.83
HSL	180°, 62%, 11%
HSV	180°, 76%, 17%
XYZ	1.5198, 2.0993, 2.7664
YIQ	34.5350, -20.8600, -7.4200

Conversions

Conversions Part 2

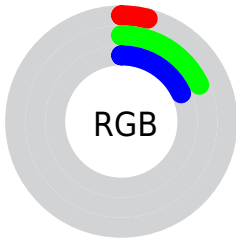
Format	Color
RYB	10, 28, 45
Decimal	666925
CIELab	16.00, -11.96, -3.62
CIELCh	16, 12.501, 196.851
Yxy	2.0993, 0.2380, 0.3288
Android (android.graphics.Color)	4278857005 (0xFF0A2D2D)
YUV	34.5350, 5.1592, -21.5172
Hunter-Lab	14.4890, -6.6318, -1.1781

Details

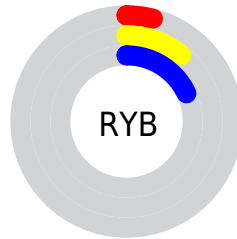
The CIELCh color **16, 12.501, 196.851** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 18.770, 21.452**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 12.871, 197.733**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 13.458, 196.662**, and if you desaturate by 10%, it is **16, 11.429, 197.062**.

Distribution



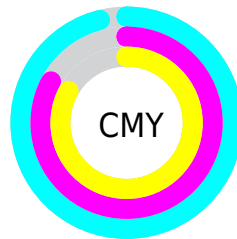
- Red (4%)
- Green (18%)
- Blue (18%)



- Red (4%)
- Yellow (11%)
- Blue (18%)



- Cyan (76%)
- Magenta (0%)
- Yellow (0%)
- Black (83%)





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


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 12.501, 196.851 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 16, 12.501, 196.851 by changing the saturation by 10% instead.

 16, 12.501,
196.851


 16, 12.501,
196.851


 100, 12.501,
196.851


 6, 12.501, 196.851


 36, 12.501,
196.851

 0, 12.501, 196.851

 46, 12.501,
196.851


 56, 12.501,
196.851


 66, 12.501,
196.851


 76, 12.501,
196.851


 86, 12.501,


196.851


 96, 12.501,
196.851


 16, 12.501,
196.851


 16, 12.501,
196.851

 16, 13.458,
196.662

 16, 11.429,
197.062

 16, 14.448,
196.469

 16, 10.154,
197.318

 16, 14.808,
196.400

 17, 8.690, 197.616

 17, 7.055, 197.956

 17, 5.271, 198.334

 18, 3.360, 198.756

■ 18, 1.346, 199.271

■ 18, 0.753, 19.317

■ 19, 2.915, 19.980

Harmonies

Complementary

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



16, 12.501, 196.851



7, 18.770, 21.452

Rectangle

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



16, 12.501, 196.851



16, 12.501, 246.851



16, 12.501, 16.851



16, 12.501, 66.851

Sweetspot

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



16, 12.501, 196.849



24, 5.805, 198.417



15, 27.026, 140.204



11, 4.056, 198.383



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



16, 12.501, 196.849



22, 16.834, 196.523



10, 13.573, 268.664



7, 1.112, 199.533



33, 22.834, 196.402



78, 43.930, 196.403

Inverse Universe

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



9, 27.185, 327.520



12, 38.157, 328.032



12, 14.779, 65.222



7, 1.977, 324.415



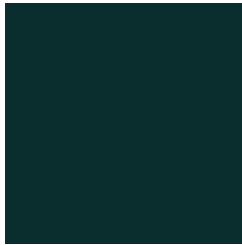
19, 52.659, 328.237



51, 101.310, 328.237

Previews

White Background



This preview shows how the CIELCh color 16, 12.501, 196.851 looks on a white background.

Color Contrast Check

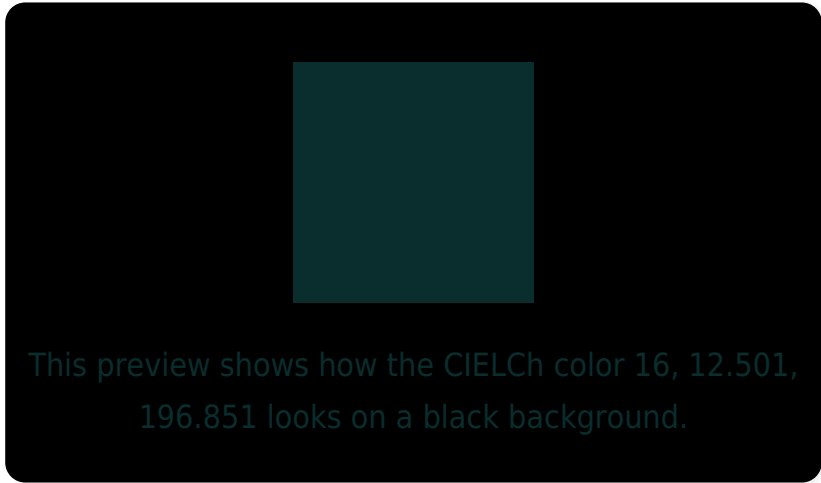
Large Text (above 18pt) WCAG AA ✓ Pass

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

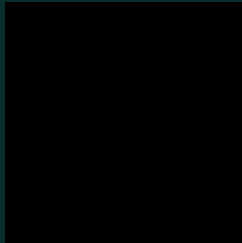
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 12.501, 196.851

Background



This preview shows how black text looks on a background with the CIELCh color 16, 12.501, 196.851.



This preview shows how white text looks on a background with the CIELCh color 16, 12.501, 196.851.

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

16, 12.715, 196.809

Protanopia

16, 1.402, 290.567

Deuteranopia

16, 5.013, 302.034



Tritanopia
16, 11.497, 211.475

Trichromacy



Original Color
16, 12.715, 196.809

Protanomaly
16, 5.764, 205.242

Deuteranomaly
16, 5.474, 229.595

Tritanomaly
16, 11.728, 207.545

Monochromacy



Original Color
16, 12.715, 196.809

Achromatopsia
13, 0.003, 296.813

Achromatomaly
14, 5.843, 198.077

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 12.501, 196.851 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, 45, 45)` looks like.

```
.text, #text, p{  
    color:rgb(10, 45, 45)  
}
```

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, 45, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 45, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 12.501, 196.851 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, 45, 45) }
```

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

```
.border{ border-color:rgb(10, 45, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 45, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 45, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 45, 45);  
box-shadow:4px 4px 4px 4px rgb(10, 45, 45)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 12.501, 196.851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 45, 45) }
```

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

```
.background{ background-color: rgb(10, 45,  
45) }
```

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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