

Converting Colors

CIELCh(18, 12.410, 198.828)

Have a look what the booklet for
CIELCh(18, 12.410, 198.828)
contains.

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Color

CIELCh(18, 12.403, 196.996)

Conversions

Conversions Part 1

Format	Color
Hex	103131
RGB	16, 49, 49
RGB Percent	6%, 19%, 19%
CMY	0.9377, 0.8082, 0.8082
CMYK	0.68, 0.00, 0.00, 0.81
HSL	180°, 51%, 13%
HSV	180°, 68%, 19%
XYZ	1.8580, 2.5180, 3.2825
YIQ	39.1330, -19.6680, -6.9960

Conversions

Conversions Part 2

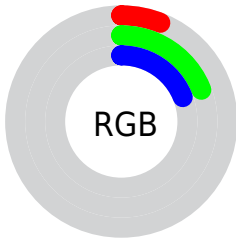
Format	Color
RYB	16, 33, 49
Decimal	1061169
CIELab	18.00, -11.86, -3.63
CIElCh	18, 12.403, 196.996
Yxy	2.5180, 0.2426, 0.3288
Android (android.graphics.Color)	4279251249 (0xFF103131)
YUV	39.1330, 4.8644, -20.2876
Hunter-Lab	15.8683, -6.8696, -1.1569

Details

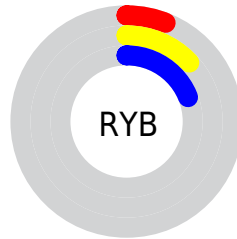
The CIELCh color **18, 12.403, 196.996** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **9, 18.440, 24.250**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 12.185, 197.870**, and **0, 0.403, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **18, 13.502, 196.788**, and if you desaturate by 10%, it is **18, 11.076, 197.246**.

Distribution



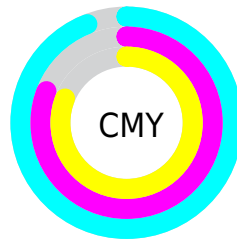
- Red (6%)
- Green (19%)
- Blue (19%)



- Red (6%)
- Yellow (13%)
- Blue (19%)



- Cyan (68%)
- Magenta (0%)
- Yellow (0%)
- Black (81%)




- Cyan (94%)
- Magenta (81%)
- Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 12.403, 196.996 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 18, 12.403, 196.996 by changing the saturation by 10% instead.

 18, 12.403,
196.996


 18, 12.403,
196.996


 100, 12.403,
196.996


 8, 12.403, 196.996


 38, 12.403,
196.996

 0, 12.403, 196.996

 48, 12.403,
196.996


 58, 12.403,
196.996


 68, 12.403,
196.996


 78, 12.403,
196.996


 88, 12.403,


196.996


 98, 12.403,
196.996

 18, 12.403,
196.996


 18, 12.403,
196.996

 18, 13.502,
196.788

 18, 11.076,
197.246


 18, 14.451,
196.613

 18, 9.535, 197.542

 18, 15.426,
196.433

 19, 7.802, 197.881

 19, 5.900, 198.260

 18, 15.674,
196.388

 20, 3.853, 198.684

 20, 1.688, 199.187

■ 20, 0.571, 19.161

■ 21, 2.904, 19.931

■ 21, 5.290, 20.458

Harmonies

Complementary

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



18, 12.403, 196.996



9, 18.440, 24.250

Rectangle

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



18, 12.403, 196.996



18, 12.403, 246.996



18, 12.403, 16.996



18, 12.403, 66.996

Sweetspot

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



18, 12.403, 196.994



26, 5.453, 198.526



17, 26.686, 139.777



12, 3.755, 198.500



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



18, 12.403, 196.994



24, 16.831, 196.658



12, 13.027, 266.679



9, 1.285, 199.140



34, 23.298, 196.388



79, 44.328, 196.388

Inverse Universe

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



11, 26.500, 327.288



14, 37.419, 327.794



14, 15.020, 67.913



8, 2.334, 324.790



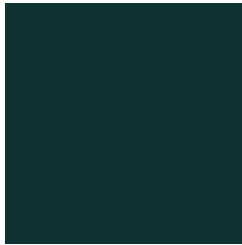
19, 53.727, 328.233



52, 102.222, 328.233

Previews

White Background



This preview shows how the CIELCh color 18, 12.403, 196.996 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 18, 12.403, 196.996 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

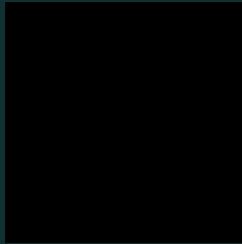
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

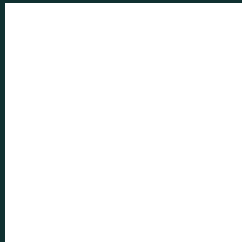
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 18, 12.403, 196.996

Background



This preview shows how black text looks on a background with the CIELCh color 18, 12.403, 196.996.



This preview shows how white text looks on a background with the CIELCh color 18, 12.403, 196.996.

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

18, 12.403, 196.996

Protanopia

18, 1.383, 290.542

Deuteranopia

18, 4.942, 301.981



Tritanopia
18, 11.375, 211.549

Trichromacy



Original Color
18, 12.403, 196.996

Protanomaly
18, 5.319, 205.875

Deuteranomaly
18, 5.758, 235.799

Tritanomaly
18, 11.623, 207.620

Monochromacy



Original Color
18, 12.403, 196.996

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 5.375, 198.276

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 12.403, 196.996 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(16, 49, 49)` looks like.

```
.text, #text, p{  
    color:rgb(16, 49, 49)  
}
```

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(16, 49, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(16, 49, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 12.403, 196.996 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(16, 49, 49) }
```

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

```
.border{ border-color:rgb(16, 49, 49) }
```

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

Here you see how a box with a 4 pixel rgb(16, 49, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(16, 49, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(16, 49, 49);  
box-shadow:4px 4px 4px 4px rgb(16, 49, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 12.403, 196.996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(16, 49, 49) }
```

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

```
.background{ background-color: rgb(16, 49,  
49) }
```

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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