

Converting Colors

CIELCh(18, 12.301, 229.822)

Have a look what the booklet for
CIELCh(18, 12.301, 229.822)
contains.

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Color

CIELCh(18, 12.226, 228.474)

Conversions

Conversions Part 1

Format	Color
Hex	113039
RGB	17, 48, 57
RGB Percent	7%, 19%, 22%
CMY	0.9338, 0.8122, 0.7769
CMYK	0.70, 0.16, 0.00, 0.78
HSL	193°, 54%, 14%
HSV	193°, 70%, 22%
XYZ	2.0178, 2.5180, 4.2370
YIQ	39.7570, -21.3650, -3.7730

Conversions

Conversions Part 2

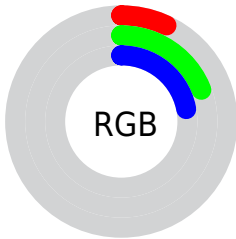
Format	Color
R_YB	17, 34, 57
Decimal	1126457
CIE Lab	18.00, -8.11, -9.15
CIE LCh	18, 12.226, 228.474
Yxy	2.5180, 0.2300, 0.2870
Android (android.graphics.Color)	4279316537 (0xFF113039)
YUV	39.7570, 8.5008, -19.9579
Hunter-Lab	15.8683, -5.0720, -4.7230

Details

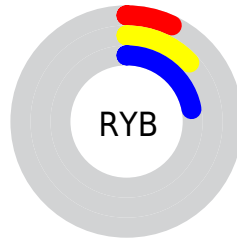
The CIELCh color **18, 12.226, 228.474** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **13, 19.216, 41.787**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 12.344, 228.340**, and **0, 5.435, 287.254** is the 20% darker color. If you saturate the color by 10%, you get **17, 13.253, 230.425**, and if you desaturate by 10%, it is **19, 10.988, 226.894**.

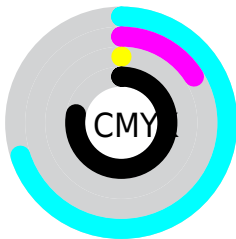
Distribution



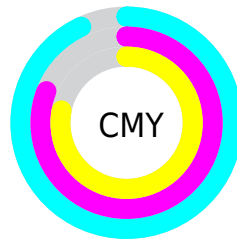
- Red (7%)
- Green (19%)
- Blue (22%)



- Red (7%)
- Yellow (13%)
- Blue (22%)



- Cyan (70%)
- Magenta (16%)
- Yellow (0%)
- Black (78%)



- Cyan (93%)
- Magenta (81%)
- Yellow (78%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 12.226, 228.474 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, 12.226, 228.474 by changing the saturation by 10% instead.

■ 18, 12.226,
228.474

■ 18, 12.226,
228.474

■ 100, 12.226,
228.474

■ 8, 12.226, 228.474

■ 38, 12.226,
228.474

■ 0, 12.226, 228.474

■ 48, 12.226,
228.474

■ 58, 12.226,
228.474


■ 68, 12.226,
228.474

■ 78, 12.226,
228.474


■ 88, 12.226,


228.474


 98, 12.226,
228.474

 18, 12.226,
228.474


 18, 12.226,
228.474

 17, 13.253,
230.425

 19, 10.988,
226.894

 17, 14.154,
232.546

 19, 9.549, 225.631

 16, 15.082,
234.275

 20, 7.929, 224.633

 21, 6.149, 223.855

 22, 4.231, 223.264

 23, 2.198, 222.850

■ 24, 0.072, 225.500

■ 25, 2.130, 42.049

■ 26, 4.391, 41.928

Harmonies

Complementary

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



18, 12.226, 228.474



13, 19.216, 41.787

Rectangle

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



18, 12.226, 228.474



18, 12.226, 278.474



18, 12.226, 48.474



18, 12.226, 98.474

Sweetspot

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



18, 12.226, 228.473



29, 5.419, 223.352



20, 27.070, 145.225



14, 3.696, 223.395



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



18, 12.226, 228.473



23, 16.513, 232.214



11, 21.044, 286.548



10, 1.170, 222.796



28, 20.943, 237.712



65, 39.933, 241.485

Inverse Universe

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



12, 26.613, 335.689



16, 36.761, 337.032



19, 20.110, 87.062



9, 2.168, 331.822



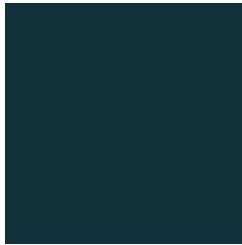
19, 46.573, 338.763



50, 86.556, 339.871

Previews

White Background



This preview shows how the CIELCh color 18, 12.226, 228.474 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, 12.226, 228.474 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

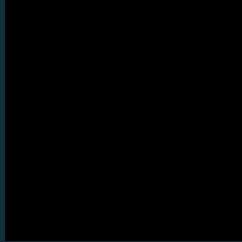
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 12.226, 228.474

Background



This preview shows how black text looks on a background with the CIELCh color 18, 12.226, 228.474.



This preview shows how white text looks on a background with the CIELCh color 18, 12.226, 228.474.

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

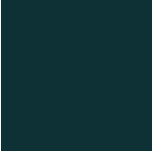
18, 12.226, 228.474

Protanopia

18, 6.934, 284.703

Deuteranopia

18, 10.384, 288.151



Tritanopia
18, 12.570, 209.949

Trichromacy



Original Color
18, 12.226, 228.474

Protanomaly
18, 8.305, 255.677

Deuteranomaly
18, 10.138, 261.961

Tritanomaly
18, 12.374, 213.583

Monochromacy



Original Color
18, 12.226, 228.474

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 5.196, 222.382

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 12.226, 228.474 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(17, 48, 57)` looks like.

```
.text, #text, p{  
    color:rgb(17, 48, 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(17, 48, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 48, 57) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 12.226, 228.474 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(17, 48, 57) }
```

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

```
.border{ border-color:rgb(17, 48, 57) }
```

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

Here you see how a box with a 4 pixel rgb(17, 48, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(17, 48, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(17, 48, 57);  
box-shadow:4px 4px 4px 4px rgb(17, 48, 57)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 12.226, 228.474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 48, 57) }
```

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

```
.background{ background-color: rgb(17, 48,  
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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