

Converting Colors

CIELCh(18, 67.993, 104.977)

Have a look what the booklet for
CIELCh(18, 67.993, 104.977)
contains.

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Color

CIELCh(18, 30.422, 122.218)

Conversions

Conversions Part 1

Format	Color
Hex	1F3100
RGB	31, 49, 0
RGB Percent	12%, 19%, 0%
CMY	0.8769, 0.8066, 1.0000
CMYK	0.36, 0.00, 1.00, 0.81
HSL	82°, 100%, 10%
HSV	82°, 100%, 19%
XYZ	1.6834, 2.5180, 0.3703
YIQ	38.0320, 5.0010, -19.0550

Conversions

Conversions Part 2

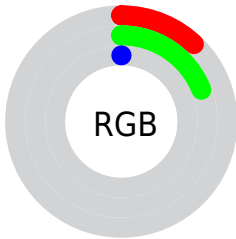
Format	Color
RYB	0, 49, 18
Decimal	2044160
CIELab	18.00, -16.22, 25.74
CIELCh	18, 30.422, 122.218
Yxy	2.5180, 0.3682, 0.5508
Android (android.graphics.Color)	4280234240 (0xFF1F3100)
YUV	38.0320, -18.7498, -6.1671
Hunter-Lab	15.8683, -8.8334, 9.7242

Details

The CIELCh color **18, 30.422, 122.218** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **3, 33.342, 305.617**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 29.663, 122.182**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 30.059, 122.447**, and if you desaturate by 10%, it is **18, 27.850, 122.069**.

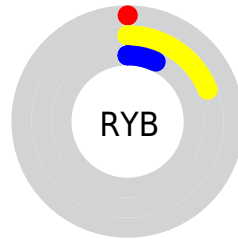
Distribution



Red (12%)

Green (19%)

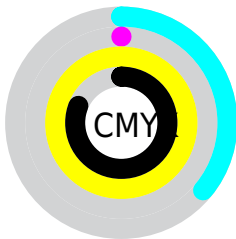
Blue (0%)



Red (0%)

Yellow (19%)

Blue (7%)

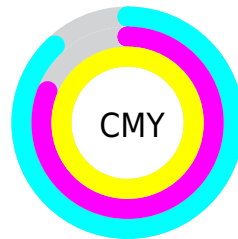


Cyan (36%)

Magenta (0%)

Yellow (100%)

Black (81%)



Cyan (88%)


Magenta (81%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 30.422, 122.218 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, 30.422, 122.218 by changing the saturation by 10% instead.

 18, 30.422,
122.218


 18, 30.422,
122.218


 100, 30.422,
122.218


 8, 30.422, 122.218


 38, 30.422,
122.218

 0, 30.422, 122.218

 48, 30.422,
122.218


 58, 30.422,
122.218


 68, 30.422,
122.218


 78, 30.422,
122.218

 88, 30.422,

122.218


 98, 30.422,
122.218


 18, 30.422,
122.218


 18, 30.422,
122.218


 18, 30.059,
122.447

 18, 27.850,
122.069

 18, 25.656,
121.642

 19, 23.215,
121.373

 19, 20.246,
121.587

 19, 17.046,
121.967

■ 19, 13.729,
122.392

■ 20, 10.339,
122.837

■ 20, 6.906, 123.288

■ 20, 3.453, 123.733

Harmonies

Complementary

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



18, 30.422, 122.218



3, 33.342, 305.617

Rectangle

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



18, 30.422, 122.218



18, 30.422, 172.218



18, 30.422, 302.218



18, 30.422, 352.218

Sweetspot

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



18, 30.059, 122.447



26, 12.822, 122.766



10, 20.866, 44.586



12, 8.835, 122.746



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, 30.059, 122.447



24, 37.590, 121.319



17, 34.458, 136.579



9, 1.961, 123.826



34, 48.081, 121.648



79, 92.351, 122.953

Inverse Universe

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



3, 33.342, 305.617



5, 44.855, 309.246



6, 36.175, 323.185



8, 1.988, 304.483



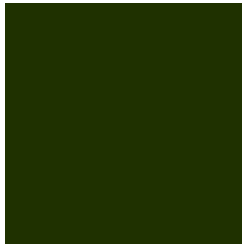
9, 59.152, 310.008



31, 113.695, 309.136

Previews

White Background



This preview shows how the CIE LCh color 18, 30.422, 122.218 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 18, 30.422, 122.218

Background



This preview shows how black text looks on a background with the CIELCh color 18, 30.422, 122.218.



This preview shows how white text looks on a background with the CIELCh color 18, 30.422, 122.218.

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

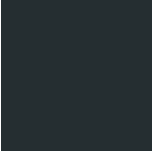
18, 29.919, 122.672

Protanopia

18, 25.730, 96.604

Deuteranopia

18, 22.005, 83.725



Tritanopia
18, 4.423, 226.725

Trichromacy



Original Color
18, 29.919, 122.672

Protanomaly
18, 26.593, 107.837

Deuteranomaly
18, 23.613, 101.788

Tritanomaly
18, 12.460, 135.915

Monochromacy



Original Color
18, 29.919, 122.672

Achromatopsia
15, 0.003, 296.813

Achromatomaly
16, 12.754, 121.157

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 30.422, 122.218 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(31, 49, 0)` looks like.

```
.text, #text, p{  
    color:rgb(31, 49, 0)  
}
```

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(31, 49, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 49, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 30.422, 122.218 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(31, 49, 0) }
```

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

```
.border{ border-color:rgb(31, 49, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 49, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 49, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(31, 49, 0); box-shadow:4px  
4px 4px 4px rgb(31, 49, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 30.422, 122.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 49, 0) }
```

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

```
.background{ background-color: rgb(31, 49,  
0) }
```

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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