

Converting Colors

CIELCh(18, 12.013, 313.544)

Have a look what the booklet for
CIELCh(18, 12.013, 313.544)
contains.

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Color

CIELCh(18, 12.601, 313.213)

Conversions

Conversions Part 1

Format	Color
Hex	322839
RGB	50, 40, 57
RGB Percent	20%, 16%, 22%
CMY	0.8029, 0.8421, 0.7754
CMYK	0.12, 0.30, 0.00, 0.78
HSL	275°, 17%, 19%
HSV	275°, 30%, 22%
XYZ	2.8414, 2.5180, 4.2427
YIQ	44.9280, 0.5030, 7.4070

Conversions

Conversions Part 2

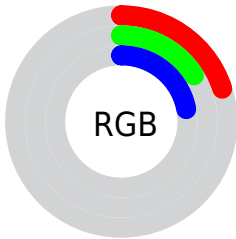
Format	Color
R_{YB}	50, 40, 57
Decimal	3287097
CIE _{Lab}	18.00, 8.63, -9.18
CIE _{LCh}	18, 12.601, 313.213
Yxy	2.5180, 0.2959, 0.2622
Android (android.graphics.Color)	4281477177 (0xFF322839)
YUV	44.9280, 5.9515, 4.4481
Hunter-Lab	15.8683, 4.1929, -4.7446

Details

The CIELCh color **18, 12.601, 313.213** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **23, 12.253, 130.952**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 12.582, 312.516**, and **0, 4.948, 286.966** is the 20% darker color. If you saturate the color by 10%, you get **16, 16.969, 313.618**, and if you desaturate by 10%, it is **20, 8.280, 312.814**.

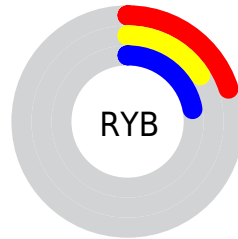
Distribution



 Red (20%)

 Green (16%)

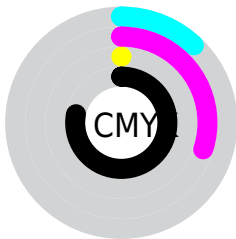
 Blue (22%)




 Red (20%)

 Yellow (16%)

 Blue (22%)

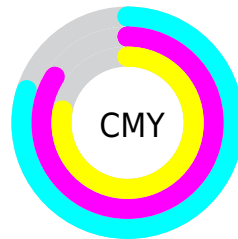


 Cyan (12%)

 Magenta (30%)

 Yellow (0%)

 Black (78%)



 Cyan (80%)

 Magenta (84%)

 Yellow (78%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 12.601, 313.213 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, 12.601, 313.213 by changing the saturation by 10% instead.

■ 18, 12.601,
313.213

■ 18, 12.601,
313.213

■ 100, 12.601,
313.213

■ 8, 12.601, 313.213

■ 38, 12.601,
313.213

■ 0, 12.601, 313.213

■ 48, 12.601,
313.213


■ 58, 12.601,
313.213


■ 68, 12.601,
313.213


■ 78, 12.601,
313.213


■ 88, 12.601,

313.213


 98, 12.601,
313.213

 18, 12.601,
313.213


 18, 12.601,
313.213


 16, 16.969,
313.618


 20, 8.280, 312.814

 14, 21.342,
314.015

 22, 4.036, 312.426


 12, 25.649,
314.384

 24, 0.117, 132.604

 10, 29.789,
314.693

 28, 8.120, 131.455

 9, 33.622, 314.903

 30, 11.967,
131.174

■ 7, 37.184, 315.031

■ 32, 15.714,
130.921

■ 6, 40.628, 315.017

■ 34, 19.362,
130.694

■ 6, 40.727, 315.014

■ 37, 22.917,
130.490

Harmonies

Complementary

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



18, 12.601, 313.213



23, 12.253, 130.952

Rectangle

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



18, 12.601, 313.213



18, 12.601, 3.213



18, 12.601, 133.213



18, 12.601, 183.213

Sweetspot

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



18, 12.600, 313.213



29, 4.632, 312.415



19, 7.322, 267.774



14, 3.251, 312.438



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, 12.600, 313.213



22, 19.023, 313.535



19, 13.150, 328.228



9, 2.260, 312.372



13, 57.716, 314.847



37, 109.371, 313.968

Inverse Universe

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



18, 9.419, 351.215



23, 14.207, 352.058



22, 13.136, 145.018



9, 1.685, 349.264



17, 40.022, 6.722



47, 75.615, 11.179

Previews

White Background



This preview shows how the CIE LCh color 18, 12.601, 313.213 looks on a white background.

Color Contrast Check

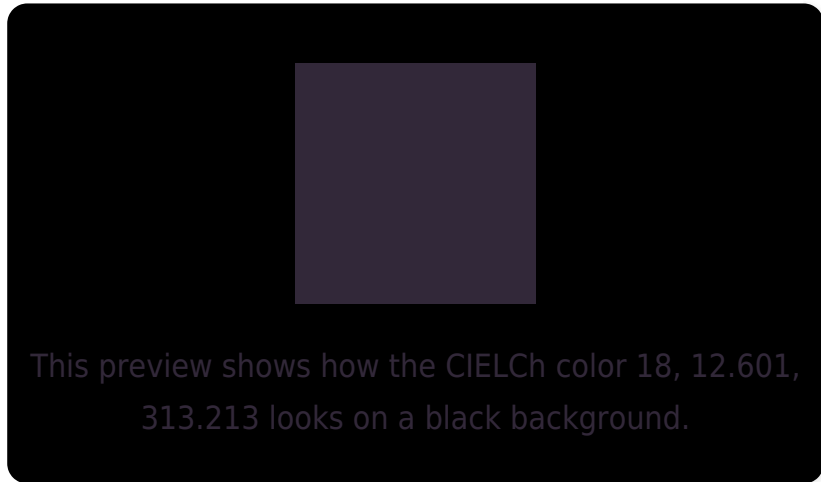
Large Text (above 18pt) WCAG AA ✓ Pass

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

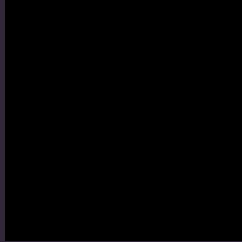
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 12.601, 313.213

Background



This preview shows how black text looks on a background with the CIELCh color 18, 12.601, 313.213.



This preview shows how white text looks on a background with the CIELCh color 18, 12.601, 313.213.

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

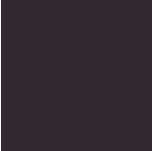
18, 12.601, 313.213

Protanopia

18, 11.154, 282.425

Deuteranopia

18, 9.680, 290.079



Tritanopia
18, 3.980, 336.362

Trichromacy



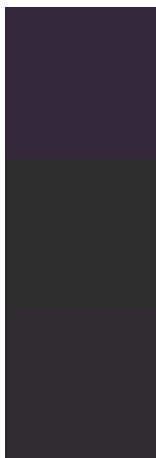
Original Color
18, 12.601, 313.213

Protanomaly
18, 11.053, 292.892

Deuteranomaly
18, 10.492, 299.763

Tritanomaly
18, 7.269, 322.108

Monochromacy



Original Color
18, 12.601, 313.213

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 4.560, 315.077

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 12.601, 313.213 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(50, 40, 57)` looks like.

```
.text, #text, p{  
    color:rgb(50, 40, 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(50, 40, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 40, 57) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 12.601, 313.213 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(50, 40, 57) }
```

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

```
.border{ border-color:rgb(50, 40, 57) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 40, 57)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 40, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 40, 57);  
box-shadow:4px 4px 4px 4px rgb(50, 40, 57)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 12.601, 313.213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 40, 57) }
```

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

```
.background{ background-color: rgb(50, 40,  
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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