

Converting Colors

CIELCh(18, 12.333, 309.583)

Have a look what the booklet for
CIELCh(18, 12.333, 309.583)
contains.

CIELCh(18, 12.302, 309.282)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(18, 12.302, 309.282)

Conversions

Conversions Part 1

Format	Color
Hex	31293A
RGB	49, 41, 58
RGB Percent	19%, 16%, 23%
CMY	0.8089, 0.8402, 0.7736
CMYK	0.16, 0.29, 0.00, 0.77
HSL	268°, 17%, 19%
HSV	268°, 29%, 23%
XYZ	2.7956, 2.5180, 4.3066
YIQ	45.3300, -0.6890, 6.9830

Conversions

Conversions Part 2

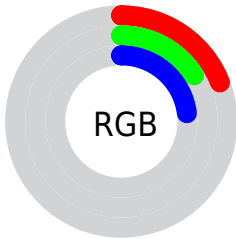
Format	Color
R_{YB}	49, 41, 58
Decimal	3221818
CIE Lab	18.00, 7.79, -9.52
CIE LCh	18, 12.302, 309.282
Yxy	2.5180, 0.2906, 0.2617
Android (android.graphics.Color)	4281411898 (0xFF31293A)
YUV	45.3300, 6.2463, 3.2186
Hunter-Lab	15.8683, 3.6772, -4.9831

Details

The CIELCh color **18, 12.302, 309.282** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **23, 11.852, 126.844**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 12.302, 308.950**, and **1, 5.946, 287.505** is the 20% darker color. If you saturate the color by 10%, you get **16, 16.659, 309.767**, and if you desaturate by 10%, it is **20, 8.023, 308.821**.

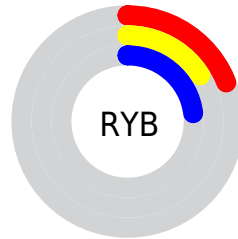
Distribution



Red (19%)

Green (16%)

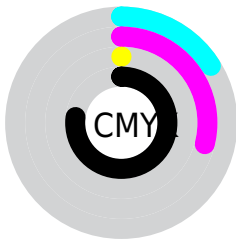
Blue (23%)



Red (19%)

Yellow (16%)

Blue (23%)

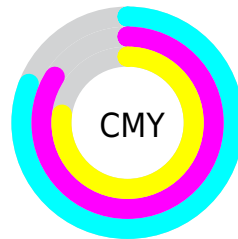


Cyan (16%)

Magenta (29%)

Yellow (0%)

Black (77%)



Cyan (81%)

Magenta (84%)

Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 12.302, 309.282 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, 12.302, 309.282 by changing the saturation by 10% instead.

■ 18, 12.302,
309.282

■ 18, 12.302,
309.282

■ 100, 12.302,
309.282

■ 8, 12.302, 309.282

■ 38, 12.302,
309.282

■ 0, 12.302, 309.282

■ 48, 12.302,
309.282


■ 58, 12.302,
309.282


■ 68, 12.302,
309.282


■ 78, 12.302,
309.282


■ 88, 12.302,

309.282


 98, 12.302,
309.282

 18, 12.302,
309.282


 18, 12.302,
309.282

 16, 16.659,
309.767


 20, 8.023, 308.821

 14, 21.065,
310.265

 22, 3.843, 308.388

 12, 25.464,
310.756


 24, 0.230, 128.205

 10, 29.765,
311.209

 27, 4.195, 127.664

 8, 33.833, 311.577

 29, 8.050, 127.339

 31, 11.800,
127.050

■ 6, 37.337, 311.614

■ 33, 15.448,
126.794

■ 5, 40.562, 311.413

■ 35, 18.998,
126.567

■ 5, 40.743, 311.396

■ 37, 22.455,
126.367

Harmonies

Complementary

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



18, 12.302, 309.282



23, 11.852, 126.844

Rectangle

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



18, 12.302, 309.282



18, 12.302, 359.282



18, 12.302, 129.282



18, 12.302, 179.282

Sweetspot

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



18, 12.301, 309.282



29, 4.516, 308.387



20, 6.495, 255.419



14, 3.171, 308.413



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, 12.301, 309.282



22, 18.138, 309.627



19, 13.745, 324.864



9, 2.203, 308.340



11, 59.082, 312.029



34, 112.201, 311.120

Inverse Universe

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



19, 10.070, 344.295



23, 14.761, 344.934



22, 13.719, 141.941



9, 1.821, 342.606



18, 40.798, 356.346



47, 75.987, 359.714

Previews

White Background



This preview shows how the CIELCh color 18, 12.302, 309.282 looks on a white background.

Color Contrast Check

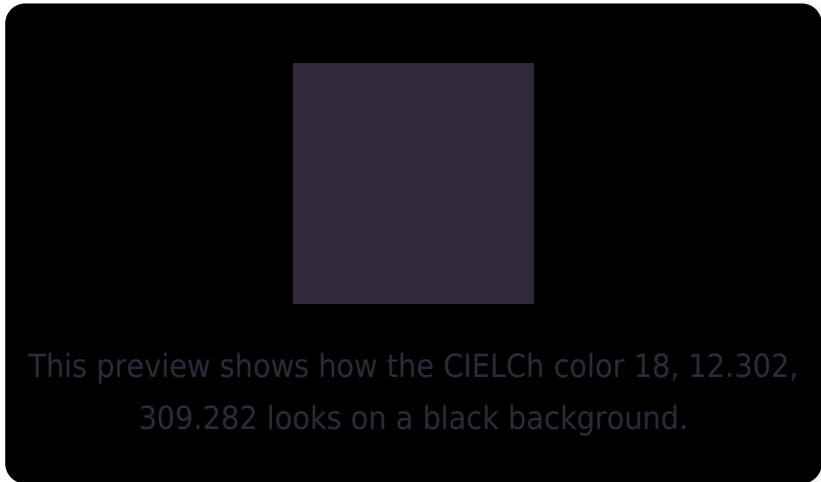
Large Text (above 18pt) WCAG AA ✓ Pass

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, 12.302, 309.282

Background



This preview shows how black text looks on a background with the CIELCh color 18, 12.302, 309.282.



This preview shows how white text looks on a background with the CIELCh color 18, 12.302, 309.282.

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, 12.302, 309.282

Protanopia

18, 11.154, 282.425

Deuteranopia

18, 9.699, 287.619



Tritanopia
18, 2.818, 332.749

Trichromacy



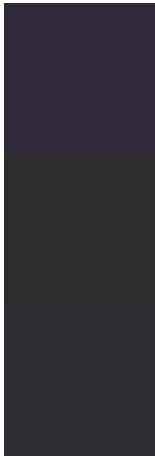
Original Color
18, 12.302, 309.282

Protanomaly
18, 11.053, 292.892

Deuteranomaly
18, 10.446, 297.426

Tritanomaly
18, 6.211, 317.853

Monochromacy



Original Color
18, 12.302, 309.282

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 5.049, 307.101

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 12.302, 309.282 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(49, 41, 58)` looks like.

```
.text, #text, p{  
    color:rgb(49, 41, 58)  
}
```

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(49, 41, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 41, 58) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 12.302, 309.282 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(49, 41, 58) }
```

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

```
.border{ border-color:rgb(49, 41, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 41, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 41, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 41, 58);  
box-shadow:4px 4px 4px 4px rgb(49, 41, 58)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 12.302, 309.282 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 41, 58) }
```

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

```
.background{ background-color: rgb(49, 41,  
58) }
```

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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