

Converting Colors

CIELCh(12, 14.333, 357.917)

Have a look what the booklet for
CIELCh(12, 14.333, 357.917)
contains.

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Color

CIELCh(12, 13.981, 356.963)

Conversions

Conversions Part 1

Format	Color
Hex	311821
RGB	49, 24, 33
RGB Percent	19%, 9%, 13%
CMY	0.8084, 0.9064, 0.8711
CMYK	0.00, 0.51, 0.33, 0.81
HSL	338°, 34%, 14%
HSV	338°, 51%, 19%
XYZ	1.8563, 1.4064, 1.6029
YIQ	32.5010, 12.0110, 8.0990

Conversions

Conversions Part 2

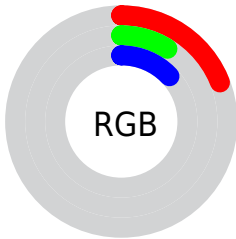
Format	Color
R_YB	49, 24, 33
Decimal	3217441
CIE Lab	12.00, 13.96, -0.74
CIE LCh	12, 13.981, 356.963
Yxy	1.4064, 0.3815, 0.2890
Android (android.graphics.Color)	4281407521 (0xFF311821)
YUV	32.5010, 0.2460, 14.4696
Hunter-Lab	11.8591, 7.1879, 0.2877

Details

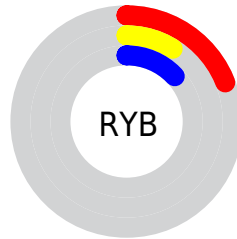
The CIELCh color **12, 13.981, 356.963** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **18, 12.661, 167.482**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 13.630, 357.388**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 16.667, 358.454**, and if you desaturate by 10%, it is **13, 11.208, 355.694**.

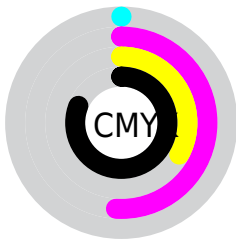
Distribution



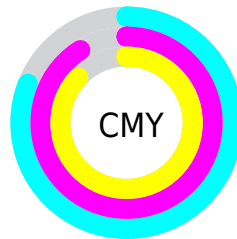
- Red (19%)
- Green (9%)
- Blue (13%)



- Red (19%)
- Yellow (9%)
- Blue (13%)



- Cyan (0%)
- Magenta (51%)
- Yellow (33%)
- Black (81%)



- Cyan (81%)
- Magenta (91%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 13.981, 356.963 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 12, 13.981, 356.963 by changing the saturation by 10% instead.

■ 12, 13.981,
356.963

■ 12, 13.981,
356.963

■ 100, 13.981,
356.963

■ 2, 13.981, 356.963

■ 32, 13.981,
356.963

■ 0, 13.981, 356.963

■ 42, 13.981,
356.963


■ 52, 13.981,
356.963


■ 62, 13.981,
356.963


■ 72, 13.981,
356.963


■ 82, 13.981,


356.963

 92, 13.981,
356.963

 12, 13.981,
356.963

 12, 13.981,
356.963

 11, 16.667,
358.454

 13, 11.208,
355.694

 9, 19.188, 0.227

 15, 8.415, 354.590

 8, 21.458, 2.339

 17, 5.648, 353.616

 7, 23.739, 3.767

 18, 2.935, 352.729

 6, 25.728, 4.355

 20, 0.298, 351.440

 22, 2.256, 171.391

■ 24, 4.722, 170.710

■ 25, 7.100, 170.109

■ 27, 9.393, 169.558

Harmonies

Complementary

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



12, 13.981, 356.963



18, 12.661, 167.482

Rectangle

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



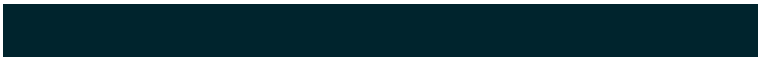
12, 13.981, 356.963



12, 13.981, 46.963



12, 13.981, 176.963



12, 13.981, 226.963

Sweetspot

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



12, 13.980, 356.965



24, 4.975, 353.137



11, 19.327, 315.432



11, 3.433, 353.177



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



12, 13.980, 356.965



15, 20.743, 358.989



13, 12.292, 33.645



8, 1.503, 352.482



17, 39.395, 11.178



46, 75.903, 16.150

Inverse Universe

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



12, 13.980, 356.965



15, 20.743, 358.989



17, 8.941, 212.876



8, 1.503, 352.482



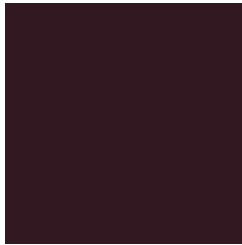
17, 39.395, 11.178



46, 75.903, 16.150

Previews

White Background



This preview shows how the CIELCh color 12, 13.981, 356.963 looks on a white background.

Color Contrast Check

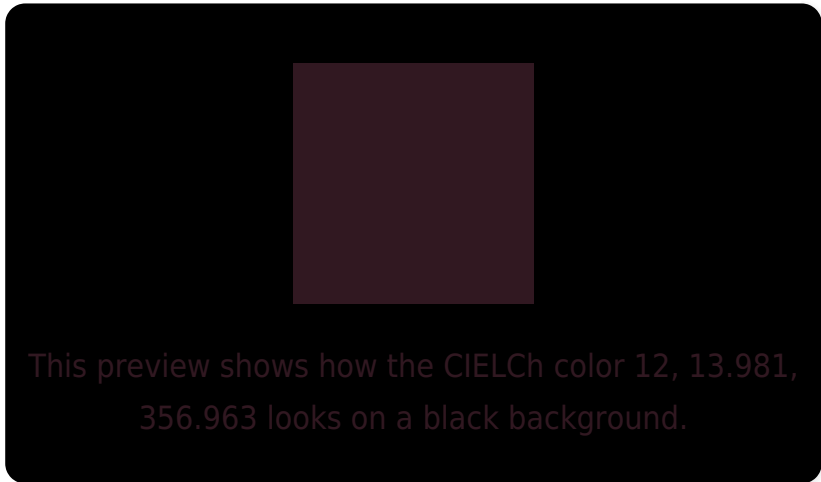
Large Text (above 18pt) WCAG AA ✓ Pass

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

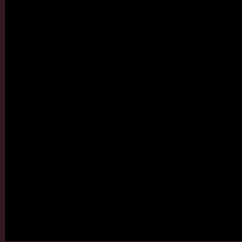
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 13.981, 356.963

Background



This preview shows how black text looks on a background with the CIELCh color 12, 13.981, 356.963.

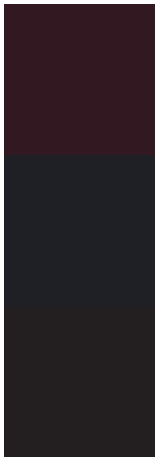


This preview shows how white text looks on a background with the CIELCh color 12, 13.981, 356.963.

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

12, 13.981, 356.963

Protanopia

12, 4.353, 285.346

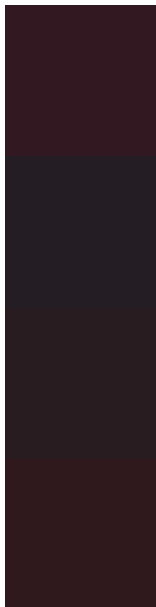
Deuteranopia

12, 2.143, 0.272



Tritanopia
12, 12.324, 16.722

Trichromacy



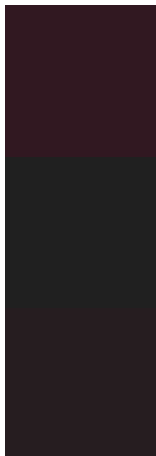
Original Color
12, 13.981, 356.963

Protanomaly
12, 6.417, 329.016

Deuteranomaly
12, 6.737, 356.131

Tritanomaly
12, 12.317, 10.100

Monochromacy



Original Color
12, 13.981, 356.963

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 5.049, 355.508

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 13.981, 356.963 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, 24, 33)` looks like.

```
.text, #text, p{  
    color:rgb(49, 24, 33)  
}
```

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, 24, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 24, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 13.981, 356.963 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, 24, 33) }
```

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

```
.border{ border-color:rgb(49, 24, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 24, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 24, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 24, 33);  
box-shadow:4px 4px 4px 4px rgb(49, 24, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 13.981, 356.963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 24, 33) }
```

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

```
.background{ background-color: rgb(49, 24,  
33) }
```

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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