

Converting Colors

CIELCh(12, 22.881, 345.038)

Have a look what the booklet for
CIELCh(12, 22.881, 345.038)
contains.

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Color

CIELCh(12, 22.604, 345.448)

Conversions

Conversions Part 1

Format	Color
Hex	381228
RGB	56, 18, 40
RGB Percent	22%, 7%, 16%
CMY	0.7816, 0.9305, 0.8442
CMYK	0.00, 0.68, 0.29, 0.78
HSL	325°, 52%, 14%
HSV	325°, 68%, 22%
XYZ	2.2034, 1.4064, 2.1378
YIQ	31.8700, 15.5860, 14.8980

Conversions

Conversions Part 2

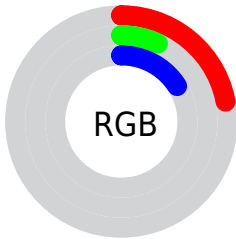
Format	Color
R_{YB}	56, 18, 40
Decimal	3674664
CIE _{Lab}	12.00, 21.88, -5.68
CIE _{LCh}	12, 22.604, 345.448
Yxy	1.4064, 0.3834, 0.2447
Android (android.graphics.Color)	4281864744 (0xFF381228)
YUV	31.8700, 4.0081, 21.1620
Hunter-Lab	11.8591, 12.4122, -2.3868




Details

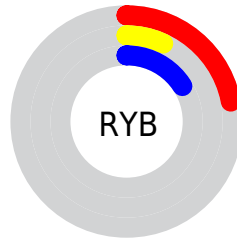
The CIELCh color **12, 22.604, 345.448** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **20, 21.999, 153.363**, and the grayscale version is **12, 0.003, 296.813**.




A 20% lighter version of the original color is **32, 22.455, 345.962**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 25.121, 346.782**, and if you desaturate by 10%, it is **13, 19.680, 344.300**.

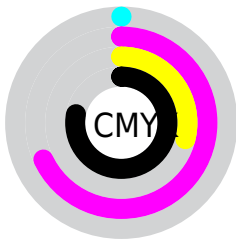
Distribution







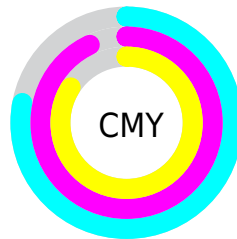
-  Red (22%)
-  Green (7%)
-  Blue (16%)






-  Red (22%)
-  Yellow (7%)
-  Blue (16%)



-  Cyan (0%)
-  Magenta (68%)
-  Yellow (29%)
-  Black (78%)



-  Cyan (78%)
-  Magenta (93%)
-  Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 22.604, 345.448 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, 22.604, 345.448 by changing the saturation by 10% instead.

 12, 22.604,
345.448

 12, 22.604,
345.448

 100, 22.604,
345.448

 2, 22.604, 345.448


 32, 22.604,
345.448

 0, 22.604, 345.448

 42, 22.604,
345.448

 52, 22.604,
345.448

 62, 22.604,
345.448

 72, 22.604,
345.448


 82, 22.604,


345.448


 92, 22.604,
345.448


 12, 22.604,
345.448

 12, 22.604,
345.448

 11, 25.121,
346.782

 13, 19.680,
344.300

 10, 27.286,
348.250

 15, 16.480,
343.290

 9, 29.744, 349.469

 17, 13.113,
342.386

 8, 30.231, 349.658

 18, 9.666, 341.565

 20, 6.204, 340.806

 22, 2.772, 340.082

■ 24, 0.600, 159.750

■ 26, 3.896, 158.930

■ 28, 7.105, 158.347

Harmonies

Complementary

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



12, 22.604, 345.448



20, 21.999, 153.363

Rectangle

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



12, 22.604, 345.448



12, 22.604, 35.448



12, 22.604, 165.448



12, 22.604, 215.448

Sweetspot

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



12, 22.603, 345.449



26, 8.410, 341.008



9, 28.342, 309.584



11, 5.625, 341.056



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



12, 22.603, 345.449



15, 31.399, 347.955



11, 20.621, 20.877



9, 1.885, 340.093



18, 41.570, 352.251



48, 77.179, 355.106

Inverse Universe

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



12, 22.603, 345.449



15, 31.399, 347.955



21, 14.407, 188.146



9, 1.885, 340.093



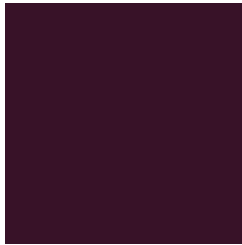
18, 41.570, 352.251



48, 77.179, 355.106

Previews

White Background



This preview shows how the CIELCh color 12, 22.604, 345.448 looks on a white background.

Color Contrast Check

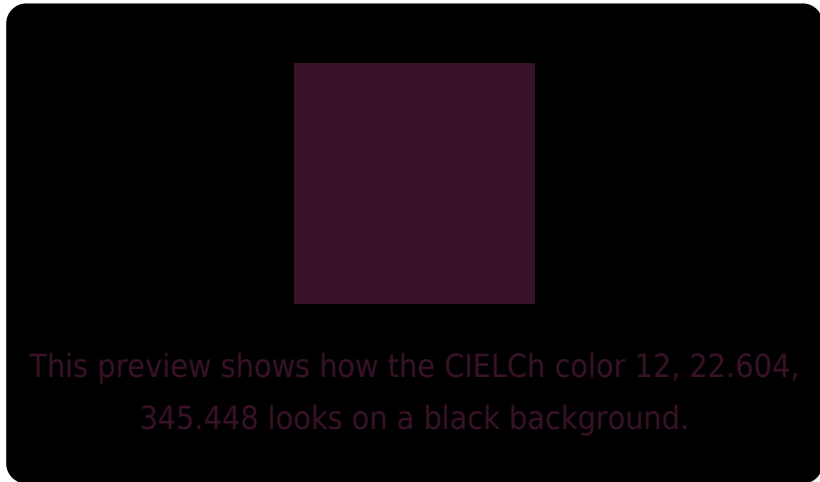
Large Text (above 18pt) WCAG AA ✓ Pass

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

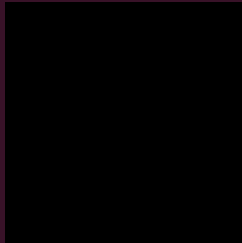
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 22.604, 345.448

Background



This preview shows how black text looks on a background with the CIELCh color 12, 22.604, 345.448.



This preview shows how white text looks on a background with the CIELCh color 12, 22.604, 345.448.

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, 22.604, 345.448

Protanopia

12, 13.104, 283.602

Deuteranopia

13, 4.448, 303.747



Tritanopia
12, 17.484, 22.927

Trichromacy



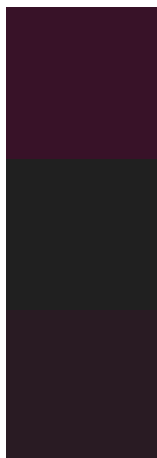
Original Color
12, 22.604, 345.448

Protanomaly
12, 14.528, 311.591

Deuteranomaly
12, 11.221, 332.355

Tritanomaly
12, 18.711, 6.799

Monochromacy



Original Color
12, 22.604, 345.448

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 8.998, 342.269

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 22.604, 345.448 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(56, 18, 40)` looks like.

```
.text, #text, p{  
    color:rgb(56, 18, 40)  
}
```

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(56, 18, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 18, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 22.604, 345.448 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(56, 18, 40) }
```

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

```
.border{ border-color:rgb(56, 18, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 18, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 18, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 18, 40);  
box-shadow:4px 4px 4px 4px rgb(56, 18, 40)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 22.604, 345.448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 18, 40) }
```

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

```
.background{ background-color: rgb(56, 18,  
40) }
```

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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