

Converting Colors

CIELCh(12, 22.255, 56.018)

Have a look what the booklet for
CIELCh(12, 22.255, 56.018) contains.

CIELCh(12, 21.988, 55.831)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(12, 21.988, 55.831)

Conversions

Conversions Part 1

Format	Color
Hex	351800
RGB	53, 24, 0
RGB Percent	21%, 9%, 0%
CMY	0.7924, 0.9061, 1.0000
CMYK	0.00, 0.55, 1.00, 0.79
HSL	27°, 100%, 10%
HSV	27°, 100%, 21%
XYZ	1.7905, 1.4064, 0.1746
YIQ	29.9350, 24.9880, -1.3160

Conversions

Conversions Part 2

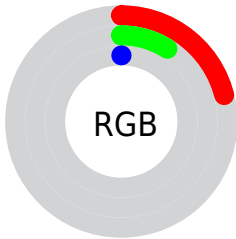
Format	Color
R_{YB}	53, 44, 0
Decimal	3479552
CIE _{Lab}	12.00, 12.35, 18.19
CIE _{LCh}	12, 21.988, 55.831
Yxy	1.4064, 0.5311, 0.4171
Android (android.graphics.Color)	4281669632 (0xFF351800)
YUV	29.9350, -14.7580, 20.2280
Hunter-Lab	11.8591, 6.1963, 7.4285

Details

The CIELCh color **12, 21.988, 55.831** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **10, 18.788, 270.188**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 22.186, 55.325**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 21.963, 55.772**, and if you desaturate by 10%, it is **13, 20.299, 57.910**.

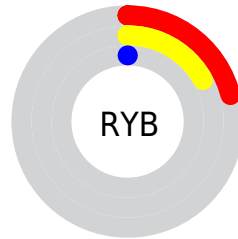
Distribution



Red (21%)

Green (9%)

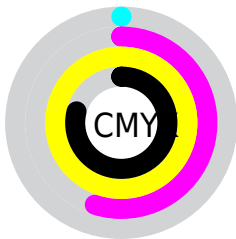
Blue (0%)



Red (21%)

Yellow (17%)

Blue (0%)

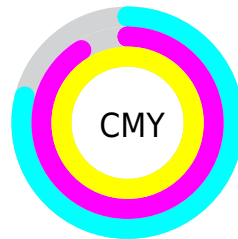


Cyan (0%)

Magenta (55%)

Yellow (100%)

Black (79%)



Cyan (79%)

Magenta (91%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 21.988, 55.831 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, 21.988, 55.831 by changing the saturation by 10% instead.

 12, 21.988, 55.831

 12, 21.988, 55.831

 100, 21.988,
55.831

 2, 21.988, 55.831

 32, 21.988, 55.831

 0, 21.988, 55.831

 42, 21.988, 55.831

 52, 21.988, 55.831

 62, 21.988, 55.831

 72, 21.988, 55.831

 82, 21.988, 55.831

 92, 21.988, 55.831

■ 12, 21.988, 55.831

■ 12, 21.988, 55.831

■ 12, 21.963, 55.772

■ 13, 20.299, 57.910

■ 14, 18.663, 60.528

■ 15, 16.745, 62.889

■ 16, 14.277, 64.303

■ 17, 11.628, 65.251

■ 18, 9.085, 66.204

■ 19, 6.654, 67.164

■ 20, 4.334, 68.121

■ 21, 2.117, 69.052

Harmonies

Complementary

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



12, 21.988, 55.831



10, 18.788, 270.188

Rectangle

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



12, 21.988, 55.831



12, 21.988, 105.831



12, 21.988, 235.831



12, 21.988, 285.831

Sweetspot

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



12, 21.963, 55.772



25, 8.322, 67.017



8, 28.935, 351.440



11, 5.751, 66.905



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, 21.963, 55.772



17, 29.464, 57.550



20, 29.014, 100.752



8, 1.126, 69.163



23, 38.137, 58.394



56, 77.265, 56.408

Inverse Universe

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



10, 18.788, 270.188



14, 23.172, 272.941



3, 34.019, 296.584



8, 1.106, 251.009



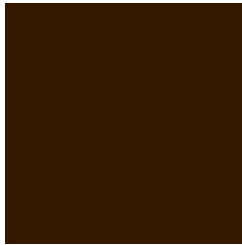
20, 28.562, 275.097



50, 58.561, 279.526

Previews

White Background



This preview shows how the CIELCh color 12, 21.988, 55.831 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



This preview shows how the CIELCh color 12, 21.988, 55.831 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

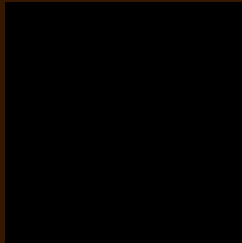
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 21.988, 55.831

Background



This preview shows how black text looks on a background with the CIELCh color 12, 21.988, 55.831.

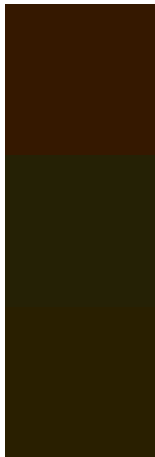


This preview shows how white text looks on a background with the CIELCh color 12, 21.988, 55.831.

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, 21.988, 55.831

Protanopia

13, 16.668, 98.545

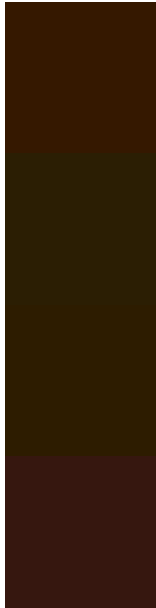
Deuteranopia

12, 18.266, 87.708



Tritanopia
12, 17.337, 20.637

Trichromacy



Original Color

12, 21.988, 55.831

Protanomaly

12, 17.293, 80.405

Deuteranomaly

12, 18.516, 73.780

Tritanomaly

12, 18.919, 39.377

Monochromacy



Original Color

12, 21.988, 55.831

Achromatopsia

11, 0.003, 296.813

Achromatomaly

11, 8.604, 67.452

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 21.988, 55.831 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(53, 24, 0)` looks like.

```
.text, #text, p{  
    color:rgb(53, 24, 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(53, 24, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(53, 24, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 21.988, 55.831 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(53, 24, 0) }
```

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

```
.border{ border-color:rgb(53, 24, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(53, 24, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(53, 24, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(53, 24, 0); box-shadow:4px  
4px 4px 4px rgb(53, 24, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 21.988, 55.831 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(53, 24, 0) }
```

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

```
.background{ background-color: rgb(53, 24,  
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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor