

Converting Colors

CIELCh(16, 21.997, 89.693)

Have a look what the booklet for
CIELCh(16, 21.997, 89.693) contains.

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Color

CIELCh(16, 22.140, 89.849)

Conversions

Conversions Part 1

Format	Color
Hex	312703
RGB	49, 39, 3
RGB Percent	19%, 15%, 1%
CMY	0.8083, 0.8475, 0.9890
CMYK	0.00, 0.20, 0.94, 0.81
HSL	47°, 89%, 10%
HSV	47°, 94%, 19%
XYZ	1.9979, 2.0993, 0.3808
YIQ	37.8860, 17.5160, -9.0760

Conversions

Conversions Part 2

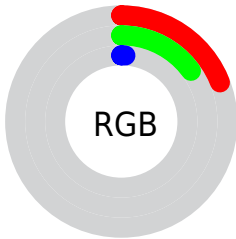
Format	Color
R_YB	16, 49, 3
Decimal	3221251
CIE _{Lab}	16.00, 0.06, 22.14
CIE _{LCh}	16, 22.140, 89.849
Yxy	2.0993, 0.4462, 0.4688
Android (android.graphics.Color)	4281411331 (0xFF312703)
YUV	37.8860, -17.1988, 9.7470
Hunter-Lab	14.4890, -0.7427, 8.5842

Details

The CIELCh color **16, 22.140, 89.849** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **5, 26.178, 291.332**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 22.359, 89.965**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 22.994, 89.372**, and if you desaturate by 10%, it is **16, 20.659, 90.790**.

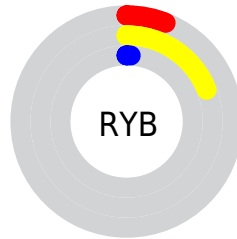
Distribution



Red (19%)

Green (15%)

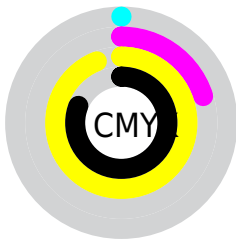
Blue (1%)



Red (6%)

Yellow (19%)

Blue (1%)

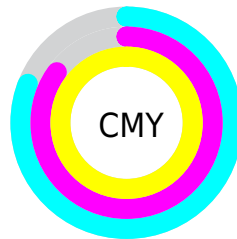


Cyan (0%)

Magenta (20%)

Yellow (94%)

Black (81%)



Cyan (81%)

Magenta (85%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 22.140, 89.849 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 16, 22.140, 89.849 by changing the saturation by 10% instead.

 16, 22.140, 89.849

 16, 22.140, 89.849

 100, 22.140,
89.849

 6, 22.140, 89.849

 36, 22.140, 89.849

 0, 22.140, 89.849

 46, 22.140, 89.849

 56, 22.140, 89.849

 66, 22.140, 89.849

 76, 22.140, 89.849

 86, 22.140, 89.849

 96, 22.140, 89.849

■ 16, 22.140, 89.849

■ 16, 22.140, 89.849

■ 16, 22.994, 89.372

■ 16, 20.659, 90.790

■ 17, 19.103, 91.850

■ 17, 17.032, 92.884

■ 18, 14.468, 93.934

■ 18, 11.812, 94.976

■ 19, 9.131, 96.001

■ 19, 6.447, 97.006

■ 20, 3.773, 97.984

■ 20, 1.116, 98.904

Harmonies

Complementary

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



16, 22.140, 89.849



5, 26.178, 291.332

Rectangle

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



16, 22.140, 89.849



16, 22.140, 139.849



16, 22.140, 269.849



16, 22.140, 319.849

Sweetspot

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



16, 22.140, 89.852



25, 9.325, 96.476



7, 24.256, 11.440



12, 6.508, 96.356



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



16, 22.140, 89.852



21, 30.106, 88.535



18, 27.867, 117.912



9, 1.511, 98.554



31, 39.685, 87.713



72, 74.969, 86.173

Inverse Universe

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



5, 26.178, 291.332



6, 37.003, 297.078



3, 31.360, 302.898



8, 1.526, 280.202



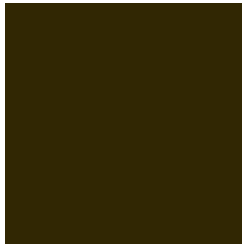
11, 49.799, 299.667



32, 102.522, 302.145

Previews

White Background



This preview shows how the CIELCh color 16, 22.140, 89.849 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 16, 22.140, 89.849 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

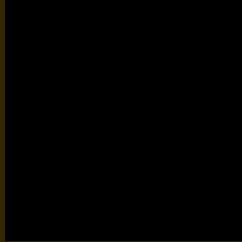
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 22.140, 89.849

Background



This preview shows how black text looks on a background with the CIELCh color 16, 22.140, 89.849.

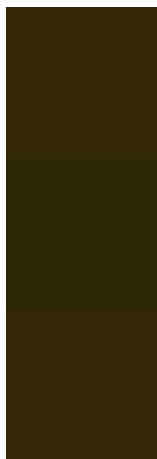


This preview shows how white text looks on a background with the CIELCh color 16, 22.140, 89.849.

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

16, 22.140, 89.849

Protanopia

16, 21.642, 97.409

Deuteranopia

16, 21.799, 84.891



Tritanopia
16, 7.747, 5.844

Trichromacy



Original Color

16, 22.140, 89.849

Protanomaly

16, 21.747, 95.882

Deuteranomaly

16, 21.564, 86.330

Tritanomaly

16, 10.587, 66.124

Monochromacy



Original Color

16, 22.140, 89.849

Achromatopsia

15, 0.003, 296.813

Achromatomaly

15, 9.341, 94.291

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 22.140, 89.849 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, 39, 3)` looks like.

```
.text, #text, p{  
    color:rgb(49, 39, 3)  
}
```

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, 39, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 39, 3) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 22.140, 89.849 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, 39, 3) }
```

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

```
.border{ border-color:rgb(49, 39, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 39, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 39, 3); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 39, 3); box-shadow:4px  
4px 4px 4px rgb(49, 39, 3) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 22.140, 89.849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 39, 3) }
```

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

```
.background{ background-color: rgb(49, 39,  
3) }
```

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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