

Converting Colors

CIELCh(16, 23.860, 86.771)

Have a look what the booklet for
CIELCh(16, 23.860, 86.771) contains.

CIELCh(16, 23.344, 85.970)	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(16, 23.344, 85.970)

Conversions

Conversions Part 1

Format	Color
Hex	332600
RGB	51, 38, 0
RGB Percent	20%, 15%, 0%
CMY	0.7996, 0.8506, 0.9994
CMYK	0.00, 0.25, 1.00, 0.80
HSL	45°, 99%, 10%
HSV	45°, 100%, 20%
XYZ	2.0674, 2.0993, 0.3006
YIQ	37.5550, 19.9460, -9.0620

Conversions

Conversions Part 2

Format	Color
RYB	17, 51, 0
Decimal	3352064
CIELab	16.00, 1.64, 23.29
CIElCh	16, 23.344, 85.970
Yxy	2.0993, 0.4628, 0.4699
Android (android.graphics.Color)	4281542144 (0xFF332600)
YUV	37.5550, -18.5146, 11.7913
Hunter-Lab	14.4890, 0.1138, 8.9121

Details

The CIELCh color **16, 23.344, 85.970** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **5, 27.706, 290.900**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 23.473, 86.715**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 23.390, 85.944**, and if you desaturate by 10%, it is **16, 21.835, 87.028**.

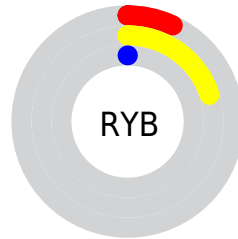
Distribution



Red (20%)

Green (15%)

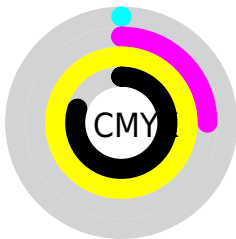
Blue (0%)



Red (7%)

Yellow (20%)

Blue (0%)



Cyan (0%)

Magenta (25%)

Yellow (100%)

Black (80%)



Cyan (80%)

Magenta (85%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 23.344, 85.970 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, 23.344, 85.970 by changing the saturation by 10% instead.

 16, 23.344, 85.970

 16, 23.344, 85.970

 100, 23.344,
85.970

 6, 23.344, 85.970

 36, 23.344, 85.970

 0, 23.344, 85.970

 46, 23.344, 85.970

 56, 23.344, 85.970

 66, 23.344, 85.970

 76, 23.344, 85.970

 86, 23.344, 85.970

 96, 23.344, 85.970

■ 16, 23.344, 85.970

■ 16, 23.344, 85.970

■ 16, 23.390, 85.944

■ 16, 21.835, 87.028

■ 17, 20.328, 88.249

■ 17, 18.473, 89.470

■ 18, 16.001, 90.606

■ 18, 13.328, 91.715

■ 19, 10.625, 92.802

■ 20, 7.919, 93.865

■ 20, 5.227, 94.902

■ 21, 2.558, 95.902

Harmonies

Complementary

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



16, 23.344, 85.970



5, 27.706, 290.900

Rectangle

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



16, 23.344, 85.970



16, 23.344, 135.970



16, 23.344, 265.970



16, 23.344, 315.970

Sweetspot

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



16, 23.344, 85.973



26, 9.960, 93.670



7, 26.616, 10.331



11, 6.633, 93.606



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, 23.344, 85.973



22, 30.463, 85.284



19, 30.016, 116.169



9, 1.451, 96.051



30, 39.075, 84.565



70, 73.980, 82.699

Inverse Universe

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



5, 27.706, 290.900



7, 36.785, 296.166



3, 34.234, 302.404



8, 1.463, 277.757



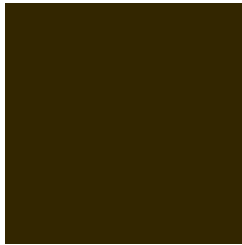
11, 47.331, 297.981



33, 97.903, 300.716

Previews

White Background



This preview shows how the CIE LCh color 16, 23.344, 85.970 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 CIE LCh color 16, 23.344, 85.970 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

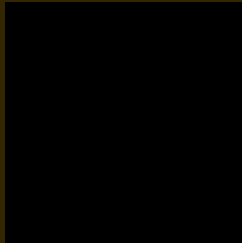
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 23.344, 85.970

Background



This preview shows how black text looks on a background with the CIELCh color 16, 23.344, 85.970.

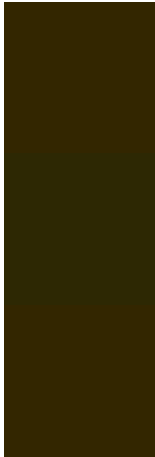


This preview shows how white text looks on a background with the CIELCh color 16, 23.344, 85.970.

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, 23.344, 85.970

Protanopia

16, 22.043, 97.494

Deuteranopia

16, 23.344, 85.970



Tritanopia
16, 9.266, 8.923

Trichromacy



Original Color
16, 23.344, 85.970

Protanomaly
16, 22.198, 92.976

Deuteranomaly
16, 23.344, 85.970

Tritanomaly
16, 12.399, 62.442

Monochromacy



Original Color
16, 23.344, 85.970

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 10.154, 91.928

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 23.344, 85.970 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(51, 38, 0)` looks like.

```
.text, #text, p{  
    color:rgb(51, 38, 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(51, 38, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 38, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 23.344, 85.970 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(51, 38, 0) }
```

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

```
.border{ border-color:rgb(51, 38, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 38, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 38, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(51, 38, 0); box-shadow:4px  
4px 4px 4px rgb(51, 38, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 23.344, 85.970 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 38, 0) }
```

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

```
.background{ background-color: rgb(51, 38,  
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