

Converting Colors

CIELCh(16, 37.836, 1.991)

Have a look what the booklet for
CIELCh(16, 37.836, 1.991) contains.

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Color

CIELCh(16, 37.782, 2.239)

Conversions

Conversions Part 1

Format	Color
Hex	550127
RGB	85, 1, 39
RGB Percent	33%, 0%, 15%
CMY	0.6667, 0.9961, 0.8471
CMYK	0.00, 0.99, 0.54, 0.67
HSL	333°, 98%, 17%
HSV	333°, 99%, 33%
XYZ	4.1231, 2.0993, 2.1072
YIQ	30.4480, 37.8660, 29.6260

Conversions

Conversions Part 2

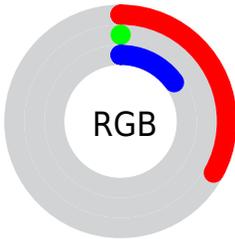
Format	Color
RYB	85, 1, 39
Decimal	5570855
CIELab	16.00, 37.75, 1.48
CIElCh	16, 37.782, 2.239
Yxy	2.0993, 0.4950, 0.2520
Android (android.graphics.Color)	4283760935 (0xFF550127)
YUV	30.4480, 4.2161, 47.8421
Hunter-Lab	14.4890, 25.4399, 1.5195

Details

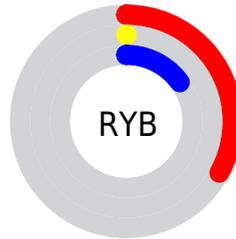
The CIELCh color **16, 37.782, 2.239** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **31, 36.295, 153.862**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 37.724, 2.094**, and **3, 14.623, 17.825** is the 20% darker color. If you saturate the color by 10%, you get **16, 38.064, 2.548**, and if you desaturate by 10%, it is **17, 35.590, 359.434**.

Distribution



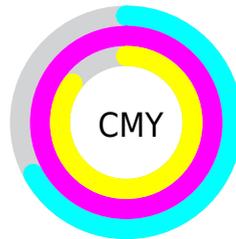
- Red (33%)
- Green (0%)
- Blue (15%)



- Red (33%)
- Yellow (0%)
- Blue (15%)



- Cyan (0%)
- Magenta (99%)
- Yellow (54%)
- Black (67%)



- Cyan (67%)
- Magenta (100%)
- Yellow (85%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 37.782, 2.239 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, 37.782, 2.239 by changing the saturation by 10% instead.

 16, 37.782, 2.239  16, 37.782, 2.239

 100, 37.782, 2.239  6, 37.782, 2.239

 36, 37.782, 2.239  0, 37.782, 2.239

 46, 37.782, 2.239

 56, 37.782, 2.239

 66, 37.782, 2.239

 76, 37.782, 2.239

 86, 37.782, 2.239

 96, 37.782, 2.239

 16, 37.782, 2.239  16, 37.782, 2.239

■ 16, 38.064, 2.548

■ 17, 35.590,
359.434

■ 18, 33.227,
356.703

■ 20, 30.070,
354.501

■ 22, 26.282,
352.702

■ 24, 22.060,
351.205

■ 26, 17.585,
349.931

■ 29, 13.003,
348.824

■ 31, 8.417, 347.842

■ 34, 3.899, 346.941

Harmonies

Complementary

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



16, 37.782, 2.239



31, 36.295, 153.862

Rectangle

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



16, 37.782, 2.239



16, 37.782, 52.239



16, 37.782, 182.239



16, 37.782, 232.239

Sweetspot

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



16, 37.780, 2.240



37, 16.723, 349.052



11, 54.694, 313.542



17, 11.516, 349.330



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



16, 37.780, 2.240



22, 45.387, 4.141



16, 42.105, 34.301



16, 2.514, 346.940



21, 44.642, 4.006



50, 79.270, 7.390

Inverse Universe

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



16, 37.780, 2.240



22, 45.387, 4.141



31, 21.500, 201.320



16, 2.514, 346.940



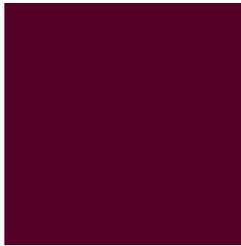
21, 44.642, 4.006



50, 79.270, 7.390

Previews

White Background



This preview shows how the CIE LCh color 16, 37.782, 2.239 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

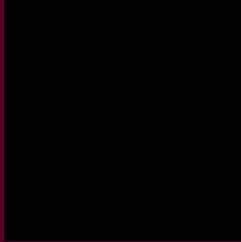
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 37.782, 2.239

Background



This preview shows how black text looks on a background with the CIELCh color 16, 37.782, 2.239.

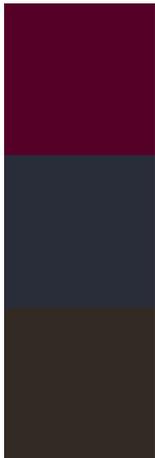


This preview shows how white text looks on a background with the CIELCh color 16, 37.782, 2.239.

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, 37.782, 2.239

Protanopia

18, 9.021, 284.348

Deuteranopia

18, 6.728, 65.423



Tritanopia
17, 36.458, 32.117

Trichromacy



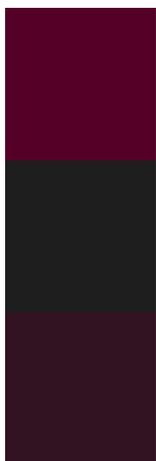
Original Color
16, 37.782, 2.239

Protanomaly
15, 19.872, 335.056

Deuteranomaly
15, 18.812, 6.381

Tritanomaly
16, 35.618, 21.399

Monochromacy



Original Color
16, 37.782, 2.239

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 17.840, 352.366

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 37.782, 2.239 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(85, 1, 39)` looks like.

```
.text, #text, p{  
    color:rgb(85, 1, 39)  
}
```

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(85, 1, 39) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 1, 39) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 37.782, 2.239 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(85, 1, 39) }
```

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

```
.border{ border-color:rgb(85, 1, 39) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 1, 39)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 1, 39); -webkit-box-shadow:4px  
4px 4px 4px rgb(85, 1, 39); box-shadow:4px  
4px 4px 4px rgb(85, 1, 39) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 37.782, 2.239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 1, 39) }
```

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

```
.background{ background-color: rgb(85, 1,  
39) }
```

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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