

Converting Colors

CIELCh(16, 20.355, 13.275)

Have a look what the booklet for
CIELCh(16, 20.355, 13.275) contains.

CIELCh(16, 20.656, 12.728)	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, 20.656, 12.728)

Conversions

Conversions Part 1

Format	Color
Hex	431B22
RGB	67, 27, 34
RGB Percent	26%, 11%, 13%
CMY	0.7369, 0.8938, 0.8664
CMYK	0.00, 0.60, 0.49, 0.74
HSL	350°, 42%, 18%
HSV	350°, 60%, 26%
XYZ	3.0037, 2.0993, 1.7655
YIQ	39.7580, 21.5930, 10.6570

Conversions

Conversions Part 2

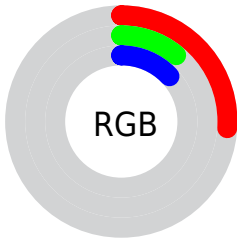
Format	Color
R_{YB}	67, 27, 34
Decimal	4397858
CIE Lab	16.00, 20.15, 4.55
CIE LCh	16, 20.656, 12.728
Yxy	2.0993, 0.4373, 0.3056
Android (android.graphics.Color)	4282587938 (0xFF431B22)
YUV	39.7580, -2.8387, 23.8912
Hunter-Lab	14.4890, 11.6488, 2.9176

Details

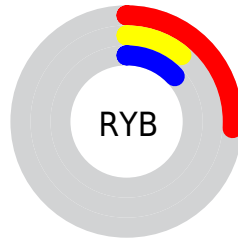
The CIELCh color **16, 20.656, 12.728** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **26, 16.110, 180.111**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 20.583, 12.691**, and **0, 1.941, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **14, 24.189, 15.082**, and if you desaturate by 10%, it is **18, 17.019, 10.821**.

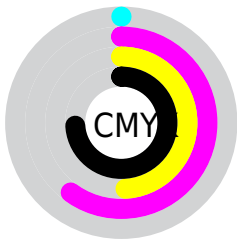
Distribution



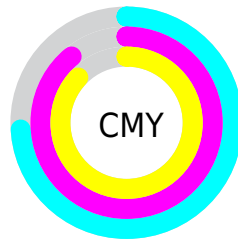
- Red (26%)
- Green (11%)
- Blue (13%)



- Red (26%)
- Yellow (11%)
- Blue (13%)



- Cyan (0%)
- Magenta (60%)
- Yellow (49%)
- Black (74%)



- Cyan (74%)
- Magenta (89%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 20.656, 12.728 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, 20.656, 12.728 by changing the saturation by 10% instead.

■ 16, 20.656, 12.728

■ 16, 20.656, 12.728

■ 100, 20.656,
12.728

■ 6, 20.656, 12.728

■ 0, 20.656, 12.728

■ 36, 20.656, 12.728

■ 46, 20.656, 12.728

■ 56, 20.656, 12.728

■ 66, 20.656, 12.728

■ 76, 20.656, 12.728

■ 86, 20.656, 12.728

■ 96, 20.656, 12.728

16, 20.656, 12.728

16, 20.656, 12.728

14, 24.189, 15.082

18, 17.019, 10.821

13, 27.512, 17.978

20, 13.378, 9.256

12, 30.453, 20.531

22, 9.806, 7.956

11, 33.354, 21.128

24, 6.351, 6.856

11, 33.461, 21.116

26, 3.042, 5.889

29, 0.110, 187.331

31, 3.104, 184.542

33, 5.946, 183.886

35, 8.645, 183.320

Harmonies

Complementary

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



16, 20.656, 12.728



26, 16.110, 180.111

Rectangle

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



16, 20.656, 12.728



16, 20.656, 62.728



16, 20.656, 192.728



16, 20.656, 242.728

Sweetspot

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



16, 20.655, 12.730



32, 7.190, 6.764



16, 29.964, 321.524



14, 4.933, 6.903



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



16, 20.655, 12.730



19, 30.897, 16.541



19, 17.662, 50.596



12, 1.734, 5.781



18, 44.927, 27.298



47, 86.387, 31.997

Inverse Universe

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



16, 20.655, 12.730



19, 30.897, 16.541



21, 12.620, 241.172



12, 1.734, 5.781



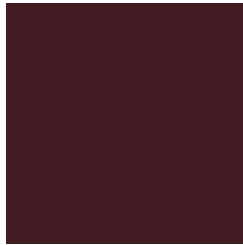
18, 44.927, 27.298



47, 86.387, 31.997

Previews

White Background



This preview shows how the CIELCh color 16, 20.656, 12.728 looks on a white background.

Color Contrast Check

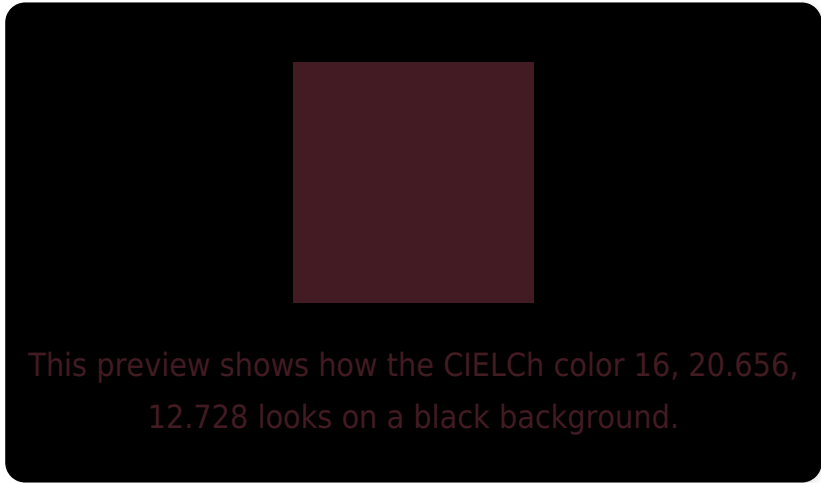
Large Text (above 18pt) WCAG AA ✓ Pass

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

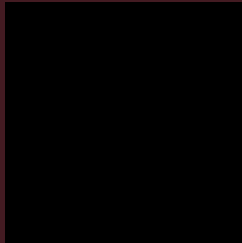
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 20.656, 12.728

Background



This preview shows how black text looks on a background with the CIELCh color 16, 20.656, 12.728.

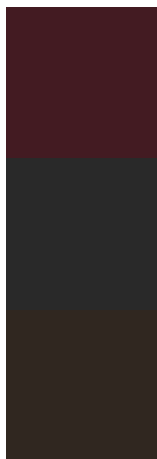


This preview shows how white text looks on a background with the CIELCh color 16, 20.656, 12.728.

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, 20.656, 12.728

Protanopia

17, 0.003, 296.813

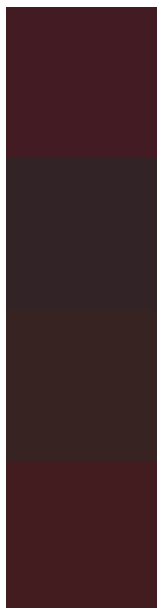
Deuteranopia

16, 6.818, 65.284



Tritanopia
16, 20.514, 21.723

Trichromacy



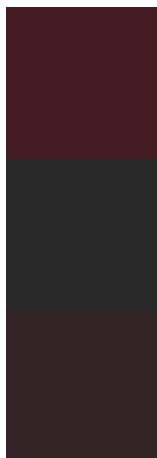
Original Color
16, 20.656, 12.728

Protanomaly
16, 7.147, 10.038

Deuteranomaly
16, 10.616, 29.389

Tritanomaly
16, 20.382, 19.830

Monochromacy



Original Color
16, 20.656, 12.728

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 7.778, 5.895

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 20.656, 12.728 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(67, 27, 34)` looks like.

```
.text, #text, p{  
    color:rgb(67, 27, 34)  
}
```

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(67, 27, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 27, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 20.656, 12.728 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(67, 27, 34) }
```

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

```
.border{ border-color:rgb(67, 27, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 27, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 27, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 27, 34);  
box-shadow:4px 4px 4px 4px rgb(67, 27, 34)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 20.656, 12.728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 27, 34) }
```

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

```
.background{ background-color: rgb(67, 27,  
34) }
```

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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