

Converting Colors

CIELCh(16, 20.772, 112.816)

Have a look what the booklet for
CIELCh(16, 20.772, 112.816)
contains.

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Color

CIELCh(16, 20.772, 112.816)

Conversions

Conversions Part 1

Format	Color
Hex	252A09
RGB	37, 42, 9
RGB Percent	15%, 16%, 4%
CMY	0.8537, 0.8340, 0.9628
CMYK	0.12, 0.00, 0.78, 0.83
HSL	69°, 63%, 10%
HSV	69°, 78%, 17%
XYZ	1.6658, 2.0993, 0.5900
YIQ	36.7430, 7.6130, -11.3230

Conversions

Conversions Part 2

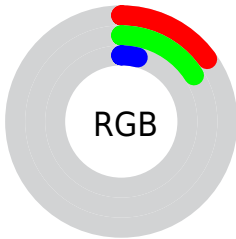
Format	Color
R_YB	9, 42, 14
Decimal	2435593
CIE Lab	16.00, -8.05, 19.15
CIE LCh	16, 20.772, 112.816
Yxy	2.0993, 0.3825, 0.4820
Android (android.graphics.Color)	4280625673 (0xFF252A09)
YUV	36.7430, -13.6773, 0.2254
Hunter-Lab	14.4890, -4.8338, 7.7278

Details

The CIELCh color **16, 20.772, 112.816** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **4, 22.900, 298.461**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 20.750, 111.968**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 22.516, 113.024**, and if you desaturate by 10%, it is **16, 18.873, 112.692**.

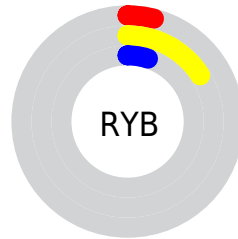
Distribution



Red (15%)

Green (16%)

Blue (4%)



Red (4%)

Yellow (16%)

Blue (5%)

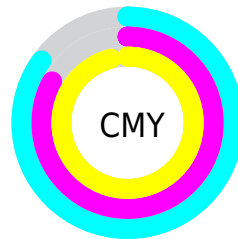


Cyan (12%)

Magenta (0%)

Yellow (78%)

Black (83%)



Cyan (85%)


Magenta (83%)


Yellow (96%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 20.772, 112.816 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, 20.772, 112.816 by changing the saturation by 10% instead.

 16, 20.772,
112.816


 16, 20.772,
112.816


 100, 20.772,
112.816


 6, 20.772, 112.816


 36, 20.772,
112.816

 0, 20.772, 112.816

 46, 20.772,
112.816


 56, 20.772,
112.816


 66, 20.772,
112.816


 76, 20.772,
112.816


 86, 20.772,


112.816


 96, 20.772,
112.816


 16, 20.772,
112.816


 16, 20.772,
112.816


 16, 22.516,
113.024


 16, 18.873,
112.692

 16, 24.266,
113.231

 16, 16.542,
112.844

 16, 24.692,
113.281

 16, 13.825,
113.357

 17, 10.994,
113.939

 17, 8.105, 114.536

■ 17, 5.179, 115.137

■ 17, 2.233, 115.732

■ 17, 0.722, 296.319

■ 17, 3.677, 296.883

Harmonies

Complementary

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



16, 20.772, 112.816



4, 22.900, 298.461

Rectangle

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



16, 20.772, 112.816



16, 20.772, 162.816



16, 20.772, 292.816



16, 20.772, 342.816

Sweetspot

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



16, 20.773, 112.818



23, 8.586, 114.721



8, 16.034, 29.218



10, 5.705, 115.082



64, 0.008, 296.813



10, 0.003, 296.813

Same Dimension

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



16, 20.773, 112.818



22, 30.654, 111.650



15, 23.556, 132.840



6, 1.311, 116.389



33, 43.856, 111.380



80, 85.565, 112.146

Inverse Universe

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



4, 22.900, 298.461



4, 36.498, 302.636



6, 24.831, 315.859



6, 1.314, 295.961



7, 58.320, 307.204



27, 115.211, 306.859

Previews

White Background



This preview shows how the CIE LCh color 16, 20.772, 112.816 looks on a white background.

Color Contrast Check

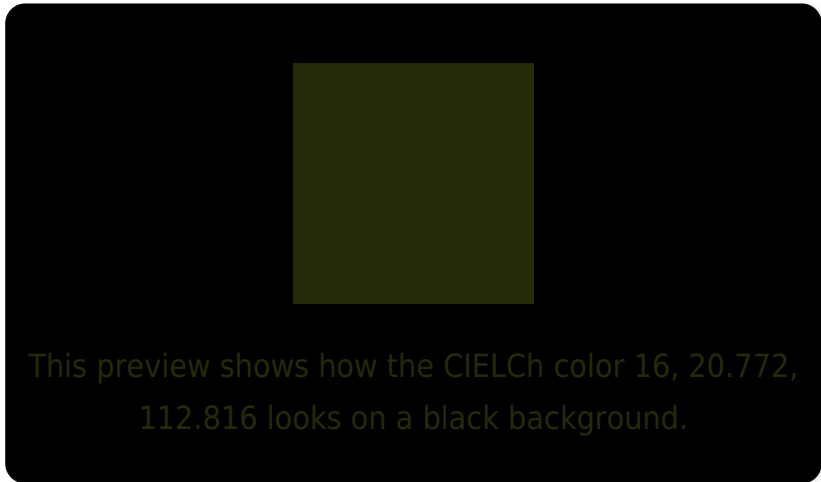
Large Text (above 18pt) WCAG AA ✓ Pass

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

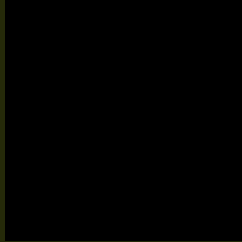
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 20.772, 112.816

Background



This preview shows how black text looks on a background with the CIELCh color 16, 20.772, 112.816.

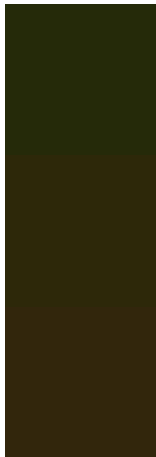


This preview shows how white text looks on a background with the CIELCh color 16, 20.772, 112.816.

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, 20.772, 112.816

Protanopia

16, 19.638, 96.943

Deuteranopia

16, 18.437, 83.792



Tritanopia
16, 2.857, 300.385

Trichromacy



Original Color
16, 20.772, 112.816

Protanomaly
16, 19.999, 103.580

Deuteranomaly
16, 18.827, 96.731

Tritanomaly
16, 6.293, 113.126

Monochromacy



Original Color
16, 20.772, 112.816

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 8.438, 114.955

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 20.772, 112.816 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(37, 42, 9)` looks like.

```
.text, #text, p{  
    color:rgb(37, 42, 9)  
}
```

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(37, 42, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 42, 9) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 20.772, 112.816 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(37, 42, 9) }
```

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

```
.border{ border-color:rgb(37, 42, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 42, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 42, 9); -webkit-box-shadow:4px  
4px 4px 4px rgb(37, 42, 9); box-shadow:4px  
4px 4px 4px rgb(37, 42, 9) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 20.772, 112.816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 42, 9) }
```

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

```
.background{ background-color: rgb(37, 42,  
9) }
```

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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