

Converting Colors

CIELCh(16, 11.909, 320.010)

Have a look what the booklet for
CIELCh(16, 11.909, 320.010)
contains.

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Color

CIELCh(16, 11.851, 319.899)

Conversions

Conversions Part 1

Format	Color
Hex	302433
RGB	48, 36, 51
RGB Percent	19%, 14%, 20%
CMY	0.8131, 0.8601, 0.8013
CMYK	0.06, 0.30, 0.00, 0.80
HSL	288°, 17%, 17%
HSV	288°, 30%, 20%
XYZ	2.4152, 2.0993, 3.3719
YIQ	41.2980, 2.3370, 7.2090

Conversions

Conversions Part 2

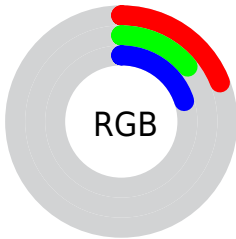
Format	Color
R_{YB}	48, 36, 51
Decimal	3154995
CIE Lab	16.00, 9.06, -7.63
CIE LCh	16, 11.851, 319.899
Yxy	2.0993, 0.3062, 0.2662
Android (android.graphics.Color)	4281345075 (0xFF302433)
YUV	41.2980, 4.7831, 5.8777
Hunter-Lab	14.4890, 4.3983, -3.6558

Details

The CIELCh color **16, 11.851, 319.899** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 11.715, 137.549**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 11.333, 319.860**, and **0, 0.807, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **14, 15.888, 320.265**, and if you desaturate by 10%, it is **18, 7.805, 319.522**.

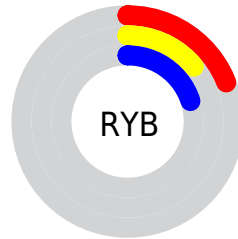
Distribution



 Red (19%)

 Green (14%)

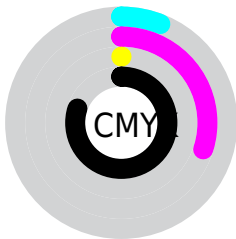
 Blue (20%)



 Red (19%)

 Yellow (14%)

 Blue (20%)

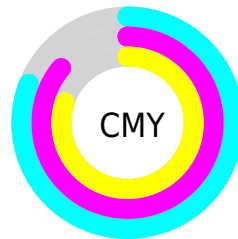


 Cyan (6%)

 Magenta (30%)

 Yellow (0%)

 Black (80%)



 Cyan (81%)

 Magenta (86%)

 Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 11.851, 319.899 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, 11.851, 319.899 by changing the saturation by 10% instead.

■ 16, 11.851,
319.899

■ 16, 11.851,
319.899

■ 100, 11.851,
319.899

■ 6, 11.851, 319.899

■ 36, 11.851,
319.899

■ 0, 11.851, 319.899

■ 46, 11.851,
319.899

■ 56, 11.851,
319.899

■ 66, 11.851,
319.899

■ 76, 11.851,
319.899

■ 86, 11.851,

319.899

96, 11.851,
319.899

16, 11.851,
319.899

16, 11.851,
319.899

14, 15.888,
320.265

18, 7.805, 319.522

13, 19.862,
320.608

19, 3.791, 319.138

21, 0.165, 139.280

11, 23.695,
320.912

23, 4.045, 138.460

10, 27.287,
321.156

25, 7.840, 138.114

27, 11.545,
137.793

9, 30.518, 321.315

■ 8, 33.633, 321.461

■ 28, 15.159,
137.492

■ 6, 36.759, 321.541

■ 30, 18.681,
137.212

■ 6, 36.891, 321.542

■ 32, 22.113,
136.953

Harmonies

Complementary

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



16, 11.851, 319.899



20, 11.715, 137.549

Rectangle

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



16, 11.851, 319.899



16, 11.851, 9.899



16, 11.851, 139.899



16, 11.851, 189.899

Sweetspot

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



16, 11.850, 319.899



26, 4.466, 319.134



16, 8.325, 282.769



11, 3.037, 319.149



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, 11.850, 319.899



21, 17.605, 320.168



16, 10.282, 335.338



8, 2.197, 319.085



16, 54.642, 321.196



44, 104.206, 320.626

Inverse Universe

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



16, 7.749, 5.846



20, 11.646, 6.700



19, 10.196, 151.726



8, 1.391, 3.776



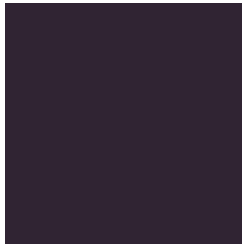
16, 41.626, 24.658



45, 82.649, 30.067

Previews

White Background



This preview shows how the CIELCh color 16, 11.851, 319.899 looks on a white background.

Color Contrast Check

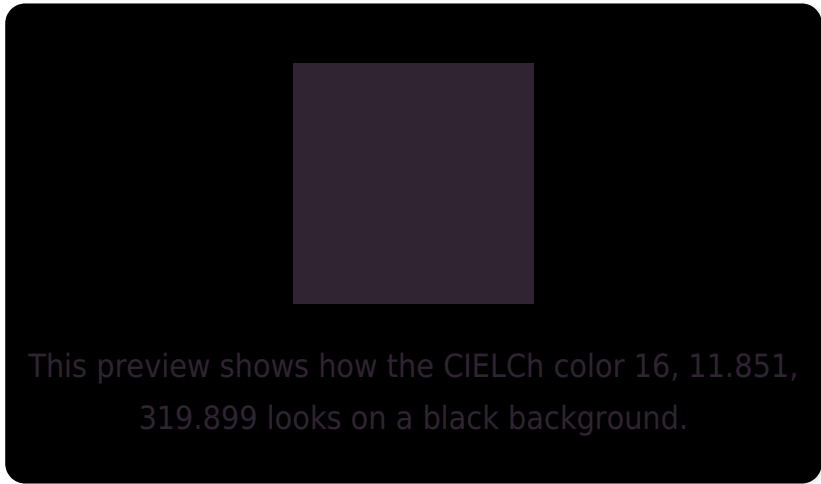
Large Text (above 18pt) WCAG AA ✓ Pass

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, 11.851, 319.899

Background



This preview shows how black text looks on a background with the CIELCh color 16, 11.851, 319.899.



This preview shows how white text looks on a background with the CIELCh color 16, 11.851, 319.899.

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, 11.851, 319.899

Protanopia

16, 9.871, 285.448

Deuteranopia

16, 7.720, 292.215



Tritanopia
16, 4.428, 352.291

Trichromacy



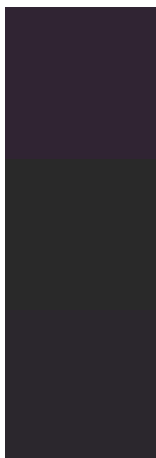
Original Color
16, 11.851, 319.899

Protanomaly
16, 9.900, 297.769

Deuteranomaly
16, 8.647, 304.246

Tritanomaly
16, 7.346, 331.614

Monochromacy



Original Color
16, 11.851, 319.899

Achromatopsia
17, 0.003, 296.813

Achromatomaly
16, 4.623, 315.107

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 11.851, 319.899 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(48, 36, 51)` looks like.

```
.text, #text, p{  
    color:rgb(48, 36, 51)  
}
```

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(48, 36, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 36, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 11.851, 319.899 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(48, 36, 51) }
```

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

```
.border{ border-color:rgb(48, 36, 51) }
```

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

Here you see how a box with a 4 pixel rgb(48, 36, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 36, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 36, 51);  
box-shadow:4px 4px 4px 4px rgb(48, 36, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 11.851, 319.899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 36, 51) }
```

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

```
.background{ background-color: rgb(48, 36,  
51) }
```

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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