

Converting Colors

CIELCh(16, 33.316, 309.703)

Have a look what the booklet for
CIELCh(16, 33.316, 309.703)
contains.

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Color

CIELCh(16, 33.969, 310.074)

Conversions

Conversions Part 1

Format	Color
Hex	321D4D
RGB	50, 29, 77
RGB Percent	20%, 11%, 30%
CMY	0.8036, 0.8860, 0.6977
CMYK	0.35, 0.62, 0.00, 0.70
HSL	266°, 45%, 21%
HSV	266°, 62%, 30%
XYZ	3.1028, 2.0993, 7.2777
YIQ	40.7510, -2.8920, 19.3800

Conversions

Conversions Part 2

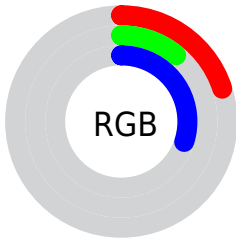
Format	Color
R_{YB}	50, 29, 77
Decimal	3284301
CIE _{Lab}	16.00, 21.87, -25.99
CIE _{LCh}	16, 33.969, 310.074
Yxy	2.0993, 0.2486, 0.1682
Android (android.graphics.Color)	4281474381 (0xFF321D4D)
YUV	40.7510, 17.8708, 8.1114
Hunter-Lab	14.4890, 12.8699, -19.6384




Details

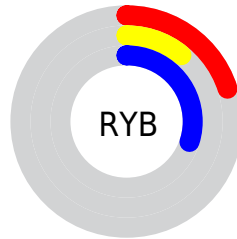
The CIELCh color **16, 33.969, 310.074** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **30, 30.777, 124.257**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 33.470, 309.816**, and **1, 18.560, 290.894** is the 20% darker color. If you saturate the color by 10%, you get **14, 39.340, 310.561**, and if you desaturate by 10%, it is **19, 28.391, 309.524**.

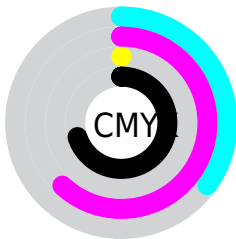
Distribution







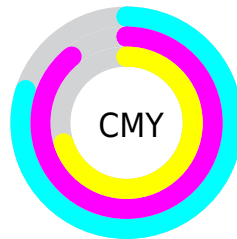
-  Red (20%)
-  Green (11%)
-  Blue (30%)






-  Red (20%)
-  Yellow (11%)
-  Blue (30%)



-  Cyan (35%)
-  Magenta (62%)
-  Yellow (0%)
-  Black (70%)



-  Cyan (80%)
-  Magenta (89%)
-  Yellow (70%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 33.969, 310.074 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, 33.969, 310.074 by changing the saturation by 10% instead.

■ 16, 33.969,
310.074

■ 16, 33.969,
310.074

■ 100, 33.969,
310.074

■ 6, 33.969, 310.074

■ 36, 33.969,
310.074

■ 0, 33.969, 310.074

■ 46, 33.969,
310.074


■ 56, 33.969,
310.074


■ 66, 33.969,
310.074


■ 76, 33.969,
310.074


■ 86, 33.969,


310.074


 96, 33.969,
310.074


 16, 33.969,
310.074

 16, 33.969,
310.074


 14, 39.340,
310.561

 19, 28.391,
309.524


 11, 44.266,
310.915

 21, 22.765,
308.957

 9, 48.683, 311.156

 24, 17.187,
308.402

 8, 52.608, 311.628

 27, 11.712,
307.877

 29, 6.369, 307.388

■ 32, 1.171, 306.913

■ 35, 3.878, 126.569

■ 38, 8.779, 126.207

■ 40, 13.537,
125.890

Harmonies

Complementary

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



16, 33.969, 310.074



30, 30.777, 124.257

Rectangle

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



16, 33.969, 310.074



16, 33.969, 0.074



16, 33.969, 130.074



16, 33.969, 180.074

Sweetspot

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



16, 33.969, 310.074



36, 12.288, 307.746



22, 16.175, 258.734



17, 8.546, 307.828



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



16, 33.969, 310.074



18, 50.158, 310.774



20, 35.418, 325.247



14, 2.861, 307.220



13, 64.112, 311.195



35, 116.962, 310.419

Inverse Universe

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



19, 26.970, 346.176



23, 38.064, 348.497



29, 35.451, 138.412



14, 2.434, 340.994



21, 44.331, 354.105



50, 79.347, 356.764

Previews

White Background



This preview shows how the CIE LCh color 16, 33.969, 310.074 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, 33.969, 310.074 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

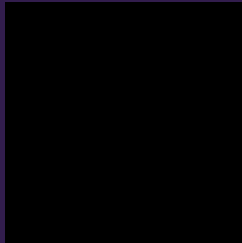
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 33.969, 310.074

Background



This preview shows how black text looks on a background with the CIELCh color 16, 33.969, 310.074.



This preview shows how white text looks on a background with the CIELCh color 16, 33.969, 310.074.

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, 33.969, 310.074

Protanopia

16, 31.173, 282.856

Deuteranopia

16, 23.676, 271.738



Tritanopia
16, 2.858, 332.784

Trichromacy



Original Color
16, 33.969, 310.074

Protanomaly
15, 32.347, 290.577

Deuteranomaly
15, 26.233, 285.137

Tritanomaly
16, 14.886, 312.220

Monochromacy



Original Color
16, 33.969, 310.074

Achromatopsia
17, 0.003, 296.813

Achromatomaly
16, 12.360, 307.381

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 33.969, 310.074 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(50, 29, 77)` looks like.

```
.text, #text, p{  
    color:rgb(50, 29, 77)  
}
```

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(50, 29, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 29, 77) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 33.969, 310.074 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(50, 29, 77) }
```

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

```
.border{ border-color:rgb(50, 29, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 29, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 29, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 29, 77);  
box-shadow:4px 4px 4px 4px rgb(50, 29, 77)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 33.969, 310.074 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 29, 77) }
```

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

```
.background{ background-color: rgb(50, 29,  
77) }
```

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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