

Converting Colors

CIELCh(16, 31.289, 296.383)

Have a look what the booklet for
CIELCh(16, 31.289, 296.383)
contains.

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Color

CIELCh(16, 31.368, 296.641)

Conversions

Conversions Part 1

Format	Color
Hex	212350
RGB	33, 35, 80
RGB Percent	13%, 14%, 31%
CMY	0.8708, 0.8630, 0.6865
CMYK	0.59, 0.56, 0.00, 0.69
HSL	237°, 42%, 22%
HSV	237°, 59%, 31%
XYZ	2.6701, 2.0993, 7.8415
YIQ	39.5320, -15.6370, 13.5710

Conversions

Conversions Part 2

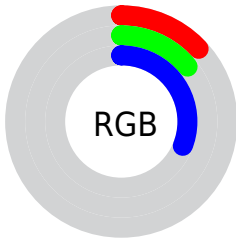
Format	Color
R _Y B	33, 35, 80
Decimal	2171728
CIE Lab	16.00, 14.07, -28.04
CIE LCh	16, 31.368, 296.641
Yxy	2.0993, 0.2117, 0.1665
Android (android.graphics.Color)	4280361808 (0xFF212350)
YUV	39.5320, 19.9507, -5.7286
Hunter-Lab	14.4890, 7.5392, -21.9457




Details

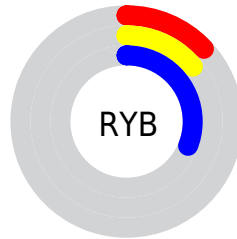
The CIELCh color **16, 31.368, 296.641** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **32, 27.251, 103.129**, and the grayscale version is **16, 0.003, 296.813**.




A 20% lighter version of the original color is **36, 31.732, 296.923**, and **1, 20.105, 290.076** is the 20% darker color. If you saturate the color by 10%, you get **13, 37.321, 298.709**, and if you desaturate by 10%, it is **19, 25.554, 294.752**.

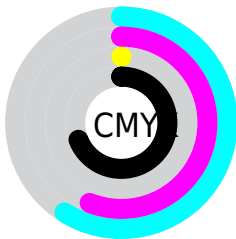
Distribution







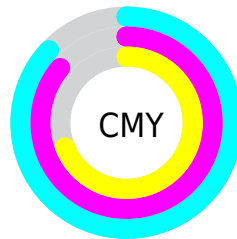
-  Red (13%)
-  Green (14%)
-  Blue (31%)






-  Red (13%)
-  Yellow (14%)
-  Blue (31%)



-  Cyan (59%)
-  Magenta (56%)
-  Yellow (0%)
-  Black (69%)



-  Cyan (87%)
-  Magenta (86%)
-  Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 31.368, 296.641 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, 31.368, 296.641 by changing the saturation by 10% instead.

■ 16, 31.368,
296.641

■ 16, 31.368,
296.641

■ 100, 31.368,
296.641

■ 6, 31.368, 296.641

■ 36, 31.368,
296.641

■ 0, 31.368, 296.641

■ 46, 31.368,
296.641

■ 56, 31.368,
296.641

■ 66, 31.368,
296.641

■ 76, 31.368,
296.641

■ 86, 31.368,

296.641

96, 31.368,
296.641

16, 31.368,
296.641

16, 31.368,
296.641

13, 37.321,
298.709

19, 25.554,
294.752

10, 43.252,
300.857

22, 19.936,
293.076

8, 48.820, 302.908

25, 14.524,
291.614

6, 53.589, 304.251

28, 9.311, 290.350

6, 54.142, 304.370

31, 4.284, 289.264

34, 0.570, 108.239

■ 37, 5.263, 107.490

■ 40, 9.806, 106.788

■ 43, 14.208,
106.175

Harmonies

Complementary

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



16, 31.368, 296.641



32, 27.251, 103.129

Rectangle

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



16, 31.368, 296.641



16, 31.368, 346.641



16, 31.368, 116.641



16, 31.368, 166.641

Sweetspot

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



16, 31.368, 296.642



37, 11.128, 290.333



31, 16.918, 191.859



18, 7.821, 290.551



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



16, 31.368, 296.642



17, 48.400, 299.736



18, 33.044, 310.274



15, 2.768, 289.259



10, 67.019, 305.288



30, 122.861, 305.901

Inverse Universe

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



20, 24.165, 22.811



24, 37.199, 26.546



31, 30.192, 124.815



15, 2.021, 16.336



20, 50.654, 34.585



48, 95.683, 38.705

Previews

White Background



This preview shows how the CIE LCh color 16, 31.368, 296.641 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 CIELCh color 16, 31.368, 296.641 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

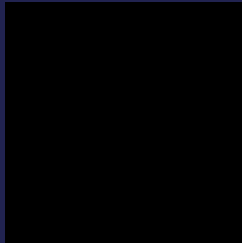
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 31.368, 296.641

Background



This preview shows how black text looks on a background with the CIELCh color 16, 31.368, 296.641.



This preview shows how white text looks on a background with the CIELCh color 16, 31.368, 296.641.

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, 31.368, 296.641

Protanopia

16, 30.535, 282.222

Deuteranopia

16, 22.510, 269.434



Tritanopia
16, 9.933, 209.788

Trichromacy



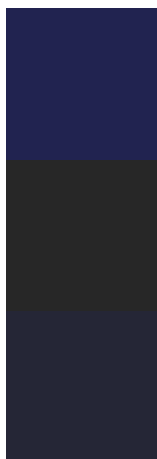
Original Color
16, 31.368, 296.641

Protanomaly
16, 30.296, 285.734

Deuteranomaly
16, 25.063, 279.976

Tritanomaly
16, 13.713, 266.802

Monochromacy



Original Color
16, 31.368, 296.641

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 11.253, 291.026

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 31.368, 296.641 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(33, 35, 80)` looks like.

```
.text, #text, p{  
    color:rgb(33, 35, 80)  
}
```

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(33, 35, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 35, 80) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 31.368, 296.641 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(33, 35, 80) }
```

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

```
.border{ border-color:rgb(33, 35, 80) }
```

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

Here you see how a box with a 4 pixel rgb(33, 35, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 35, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 35, 80);  
box-shadow:4px 4px 4px 4px rgb(33, 35, 80)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 31.368, 296.641 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 35, 80) }
```

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

```
.background{ background-color: rgb(33, 35,  
80) }
```

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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