

Converting Colors

CIELCh(31, 43.916, 299.750)

Have a look what the booklet for
CIELCh(31, 43.916, 299.750)
contains.

CIELCh(31, 43.828, 299.693)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(31, 43.828, 299.693)

Conversions

Conversions Part 1

Format	Color
Hex	464085
RGB	70, 64, 133
RGB Percent	27%, 25%, 52%
CMY	0.7257, 0.7492, 0.4787
CMYK	0.47, 0.52, 0.00, 0.48
HSL	245°, 35%, 39%
HSV	245°, 52%, 52%
XYZ	8.5802, 6.6515, 22.9979
YIQ	73.6600, -18.5730, 22.7310

Conversions

Conversions Part 2

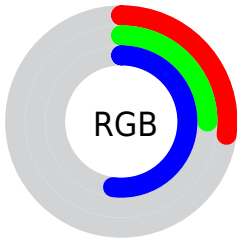
Format	Color
R_{YB}	70, 64, 133
Decimal	4604037
CIE _{Lab}	31.00, 21.71, -38.07
CIE _{LCh}	31, 43.828, 299.693
Yxy	6.6515, 0.2244, 0.1740
Android (android.graphics.Color)	4282794117 (0xFF464085)
YUV	73.6600, 29.2546, -3.2098
Hunter-Lab	25.7905, 14.2513, -34.8166

Details

The CIELCh color $[31, 43.828, 299.693]$ is a dark color, and the websafe version is hex 333366 . A complement of this color would be $[54, 38.262, 109.515]$, and the grayscale version is $[31, 0.005, 296.813]$.

A 20% lighter version of the original color is $[51, 43.904, 299.482]$, and $[11, 44.312, 299.934]$ is the 20% darker color. If you saturate the color by 10%, you get $[27, 53.121, 301.352]$, and if you desaturate by 10%, it is $[36, 34.720, 298.170]$.

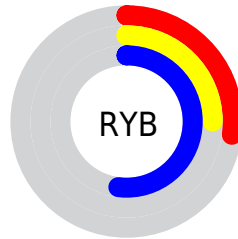
Distribution



Red (27%)

Green (25%)

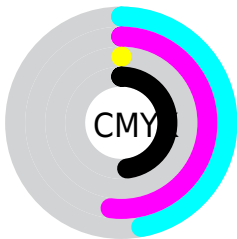
Blue (52%)



Red (27%)

Yellow (25%)

Blue (52%)

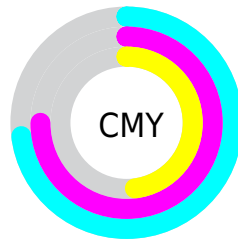


Cyan (47%)

Magenta (52%)

Yellow (0%)

Black (48%)



Cyan (73%)


Magenta (75%)


Yellow (48%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 43.828, 299.693 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 31, 43.828, 299.693 by changing the saturation by 10% instead.


 31, 43.828,
299.693


 31, 43.828,
299.693

 100, 43.828,
299.693


 21, 43.828,
299.693

 51, 43.828,
299.693


 11, 43.828,
299.693


 61, 43.828,
299.693

 1, 43.828, 299.693

 71, 43.828,
299.693

 0, 43.828, 299.693

 81, 43.828,
299.693

 91, 43.828,
299.693

■ 31, 43.828,
299.693

■ 31, 43.828,
299.693

■ 27, 53.121,
301.352

■ 36, 34.720,
298.170

■ 22, 62.306,
303.053

■ 40, 25.914,
296.818

■ 19, 70.766,
304.621

■ 45, 17.441,
295.639

■ 16, 77.492,
305.804

■ 50, 9.295, 294.622

■ 55, 1.461, 293.761

■ 14, 81.987,
306.670

■ 59, 6.082, 112.990

■ 64, 13.353,
112.347

■ 69, 20.372,
111.792

■ 73, 27.155,
111.313

Harmonies

Complementary

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



31, 43.828, 299.693



54, 38.262, 109.515

Rectangle

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



31, 43.828, 299.693



31, 43.828, 349.693



31, 43.828, 119.693



31, 43.828, 169.693

Sweetspot

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



31, 43.828, 299.694



61, 15.663, 295.057



50, 20.813, 206.781



31, 10.565, 295.233



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



31, 43.828, 299.694



35, 66.242, 301.610



35, 44.768, 314.185



25, 4.374, 294.367



14, 80.686, 306.679



0, 1.031, 293.593

Inverse Universe

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



38, 44.809, 329.735



46, 64.329, 330.319



51, 42.251, 129.604



26, 4.968, 327.355



30, 65.633, 331.903



0, 1.183, 326.875

Previews

White Background



This preview shows how the CIE LCh color 31, 43.828, 299.693 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 31, 43.828, 299.693 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

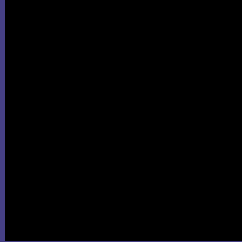
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 43.828, 299.693

Background



This preview shows how black text looks on a background with the CIELCh color 31, 43.828, 299.693.



This preview shows how white text looks on a background with the CIELCh color 31, 43.828, 299.693.

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

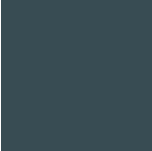
31, 43.828, 299.693

Protanopia

31, 43.996, 286.324

Deuteranopia

31, 37.338, 277.104



Tritanopia
31, 8.855, 228.864

Trichromacy



Original Color
31, 43.828, 299.693

Protanomaly
31, 43.862, 290.504

Deuteranomaly
30, 39.819, 284.816

Tritanomaly
31, 18.746, 281.379

Monochromacy



Original Color
31, 43.828, 299.693

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 16.031, 297.171

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 43.828, 299.693 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(70, 64, 133)` looks like.

```
.text, #text, p{  
    color:rgb(70, 64, 133)  
}
```

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(70, 64, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 64, 133) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 43.828, 299.693 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(70, 64, 133) }
```

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

```
.border{ border-color:rgb(70, 64, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 64, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 64, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 64, 133);  
box-shadow:4px 4px 4px 4px rgb(70, 64,  
133) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 43.828, 299.693 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 64, 133) }
```

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

```
.background{ background-color: rgb(70, 64,  
133) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor