

Converting Colors

CIELCh(28, 78.712, 303.331)

Have a look what the booklet for
CIELCh(28, 78.712, 303.331)
contains.

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Color

CIELCh(28, 78.712, 303.331)

Conversions

Conversions Part 1

Format	Color
Hex	342CAA
RGB	52, 44, 170
RGB Percent	20%, 17%, 67%
CMY	0.7951, 0.8269, 0.3326
CMYK	0.69, 0.74, 0.00, 0.33
HSL	244°, 59%, 42%
HSV	244°, 74%, 67%
XYZ	9.6065, 5.4574, 38.6639
YIQ	60.7560, -35.6780, 40.8820

Conversions

Conversions Part 2

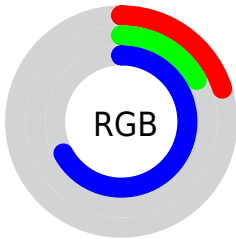
Format	Color
R_{YB}	52, 44, 170
Decimal	3419306
CIE _{Lab}	28.00, 43.25, -65.76
CIE _{LCh}	28, 78.712, 303.331
Yxy	5.4574, 0.1788, 0.1016
Android (android.graphics.Color)	4281609386 (0xFF342CAA)
YUV	60.7560, 53.8573, -7.6790
Hunter-Lab	23.3610, 32.5211, -81.7758

Details

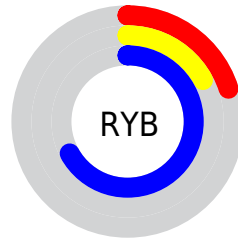
The CIELCh color **28, 78.712, 303.331** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **67, 62.480, 107.067**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 78.239, 303.261**, and **11, 74.307, 306.107** is the 20% darker color. If you saturate the color by 10%, you get **24, 88.462, 304.925**, and if you desaturate by 10%, it is **33, 67.626, 301.505**.

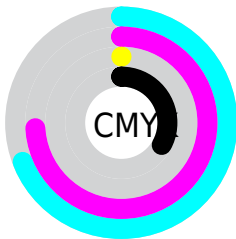
Distribution



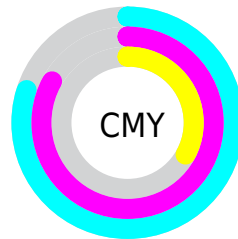
- Red (20%)
- Green (17%)
- Blue (67%)



- Red (20%)
- Yellow (17%)
- Blue (67%)



- Cyan (69%)
- Magenta (74%)
- Yellow (0%)
- Black (33%)





- Cyan (80%)
- Magenta (83%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 78.712, 303.331 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 28, 78.712, 303.331 by changing the saturation by 10% instead.


 28, 78.712,
303.331


 28, 78.712,
303.331

 100, 78.712,
303.331


 18, 78.712,
303.331


 48, 78.712,
303.331


 8, 78.712, 303.331

 58, 78.712,
303.331

 0, 78.712, 303.331

 68, 78.712,
303.331

 78, 78.712,
303.331

 88, 78.712,
303.331

 98, 78.712,

303.331

■ 28, 78.712,
303.331

■ 28, 78.712,
303.331

■ 24, 88.462,
304.925

■ 33, 67.626,
301.505

■ 21, 95.423,
305.990

■ 38, 56.200,
299.676

■ 20, 98.496,
306.497

■ 44, 44.936,
297.978

■ 50, 34.034,
296.468

■ 56, 23.552,
295.154

■ 61, 13.490,
294.025

■ 67, 3.825, 293.066

■ 73, 5.469, 112.224

■ 79, 14.419,
111.523

Harmonies

Complementary

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



28, 78.712, 303.331



67, 62.480, 107.067

Rectangle

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



28, 78.712, 303.331



28, 78.712, 353.331



28, 78.712, 123.331



28, 78.712, 173.331

Sweetspot

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



28, 78.713, 303.332



73, 26.631, 294.954



62, 32.152, 203.162



37, 18.134, 295.271



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



28, 78.713, 303.332



30, 113.863, 305.699



35, 76.059, 313.874



33, 5.332, 293.546



16, 88.791, 306.535



1, 9.571, 292.353

Inverse Universe

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



43, 72.742, 330.053



53, 96.912, 330.651



63, 69.298, 128.000



33, 6.154, 326.706



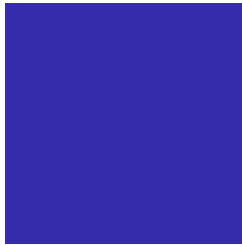
34, 73.274, 330.914



2, 10.981, 326.937

Previews

White Background



This preview shows how the CIE LCh color 28, 78.712, 303.331 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 28, 78.712, 303.331 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

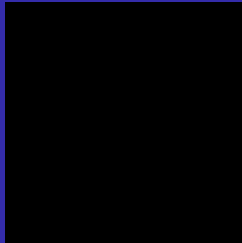
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 78.712, 303.331

Background



This preview shows how black text looks on a background with the CIELCh color 28, 78.712, 303.331.



This preview shows how white text looks on a background with the CIELCh color 28, 78.712, 303.331.

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

28, 78.712, 303.331

Protanopia

28, 45.575, 284.922

Deuteranopia

28, 32.204, 271.215



Tritanopia
28, 19.684, 206.210

Trichromacy



Original Color
28, 78.712, 303.331

Protanomaly
27, 57.909, 293.707

Deuteranomaly
27, 49.319, 290.092

Tritanomaly
26, 32.856, 277.824

Monochromacy



Original Color
28, 78.712, 303.331

Achromatopsia
26, 0.004, 296.813

Achromatomaly
25, 30.244, 297.883

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 78.712, 303.331 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(52, 44, 170)` looks like.

```
.text, #text, p{  
    color:rgb(52, 44, 170)  
}
```

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(52, 44, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 44, 170) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 78.712, 303.331 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(52, 44, 170) }
```

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

```
.border{ border-color:rgb(52, 44, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(52, 44, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 44, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 44, 170);  
box-shadow:4px 4px 4px 4px rgb(52, 44,  
170) }
```

Background

The CSS property to change the background color of an element to CIELCh 28, 78.712, 303.331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 44, 170) }
```

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

```
.background{ background-color: rgb(52, 44,  
170) }
```

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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