

Converting Colors

CIELCh(8, 110.707, 249.439)

Have a look what the booklet for
CIELCh(8, 110.707, 249.439)
contains.

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Color

CIELCh(28, 78.738, 298.552)

Conversions

Conversions Part 1

Format	Color
Hex	0033B0
RGB	0, 51, 176
RGB Percent	0%, 20%, 69%
CMY	1.0000, 0.8000, 0.3109
CMYK	1.00, 0.71, 0.00, 0.31
HSL	223°, 100%, 34%
HSV	223°, 100%, 69%
XYZ	8.9281, 5.4574, 41.5137
YIQ	50.0010, -70.5210, 28.0630

Conversions

Conversions Part 2

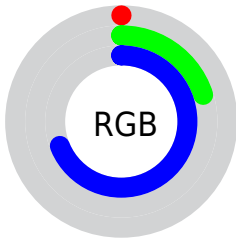
Format	Color
R _Y B	0, 40, 176
Decimal	13232
CIE Lab	28.00, 37.63, -69.16
CIE LCh	28, 78.738, 298.552
Yxy	5.4574, 0.1597, 0.0976
Android (android.graphics.Color)	4278203312 (0xFF0033B0)
YUV	50.0010, 62.1175, -43.8509
Hunter-Lab	23.3610, 27.3374, -89.0086

Details

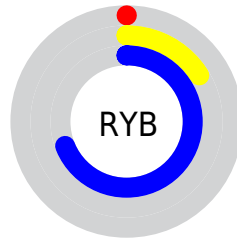
The CIELCh color **28, 78.738, 298.552** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **56, 62.775, 79.800**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 78.643, 298.643**, and **13, 72.815, 304.527** is the 20% darker color. If you saturate the color by 10%, you get **28, 78.685, 298.708**, and if you desaturate by 10%, it is **31, 70.277, 295.503**.

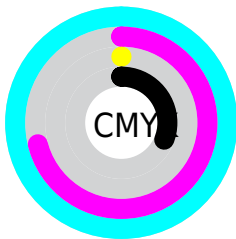
Distribution



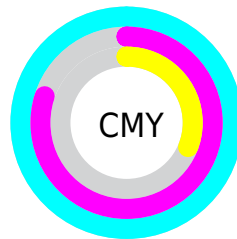
- Red (0%)
- Green (20%)
- Blue (69%)



- Red (0%)
- Yellow (16%)
- Blue (69%)



- Cyan (100%)
- Magenta (71%)
- Yellow (0%)
- Black (31%)





- Cyan (100%)
- Magenta (80%)
- Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 78.738, 298.552 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, 78.738, 298.552 by changing the saturation by 10% instead.

 28, 78.738,
298.552


 28, 78.738,
298.552

 100, 78.738,
298.552


 18, 78.738,
298.552


 48, 78.738,
298.552


 8, 78.738, 298.552

 58, 78.738,
298.552

 0, 78.738, 298.552

 68, 78.738,
298.552

 78, 78.738,
298.552

 88, 78.738,
298.552

 98, 78.738,

298.552

■ 28, 78.738,
298.552

■ 28, 78.738,
298.552

■ 28, 78.685,
298.708

■ 31, 70.277,
295.503

■ 35, 61.716,
292.113

■ 39, 53.269,
288.845

■ 44, 45.050,
285.845

■ 48, 37.072,
283.182

■ 53, 29.313,
280.865

■ 58, 21.745,
278.871

■ 62, 14.346,
277.165

■ 67, 7.103, 275.711

Harmonies

Complementary

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



28, 78.738, 298.552



56, 62.775, 79.800

Rectangle

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



28, 78.738, 298.552



28, 78.738, 348.552



28, 78.738, 118.552



28, 78.738, 168.552

Sweetspot

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



28, 78.685, 298.708



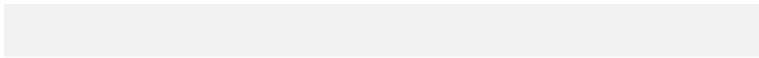
74, 27.032, 278.969



64, 53.352, 161.942



36, 18.506, 279.758



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



28, 78.685, 298.708



37, 97.790, 299.295



22, 99.650, 307.283



34, 3.976, 275.618



24, 69.297, 298.284



2, 8.832, 278.112

Inverse Universe

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



37, 66.555, 21.764



48, 81.779, 22.871



67, 75.206, 114.666



34, 4.101, 357.454



31, 59.114, 20.983



2, 8.285, 0.492

Previews

White Background



This preview shows how the CIE LCh color 28, 78.738, 298.552 looks on a white background.

Color Contrast Check

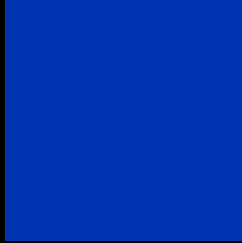
Large Text (above 18pt) WCAG AA ✓ Pass

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, 78.738, 298.552 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

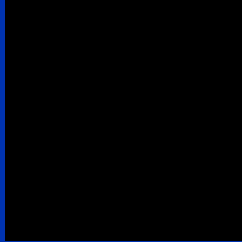
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 78.738, 298.552

Background



This preview shows how black text looks on a background with the CIELCh color 28, 78.738, 298.552.



This preview shows how white text looks on a background with the CIELCh color 28, 78.738, 298.552.

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, 78.831, 298.731

Protanopia

28, 46.763, 285.635

Deuteranopia

28, 31.673, 270.015



Tritanopia
28, 19.955, 204.109

Trichromacy



Original Color
28, 78.831, 298.731

Protanomaly
28, 58.499, 292.199

Deuteranomaly
27, 48.697, 287.256

Tritanomaly
27, 32.752, 272.812

Monochromacy



Original Color
28, 78.831, 298.731

Achromatopsia
21, 0.004, 296.813

Achromatomaly
22, 31.001, 287.225

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 78.738, 298.552 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(0, 51, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 176)  
}
```

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(0, 51, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 176) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 78.738, 298.552 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(0, 51, 176) }
```

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

```
.border{ border-color:rgb(0, 51, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 51, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 51, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 51, 176)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 78.738, 298.552 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 51, 176) }
```

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

```
.background{ background-color: rgb(0, 51,  
176) }
```

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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