

Converting Colors

CIELCh(28, 90.507, 301.233)

Have a look what the booklet for
CIELCh(28, 90.507, 301.233)
contains.

CIELCh(28, 90.631, 301.385)	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(28, 90.631, 301.385)

Conversions

Conversions Part 1

Format	Color
Hex	002CBE
RGB	0, 44, 190
RGB Percent	0%, 17%, 75%
CMY	1.0000, 0.8289, 0.2567
CMYK	1.00, 0.77, 0.00, 0.26
HSL	226°, 100%, 37%
HSV	226°, 100%, 74%
XYZ	10.1035, 5.4574, 48.9693
YIQ	47.4880, -73.0900, 36.0780

Conversions

Conversions Part 2

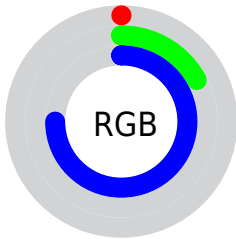
Format	Color
RYB	0, 36, 190
Decimal	11454
CIELab	28.00, 47.20, -77.37
CIELCh	28, 90.631, 301.385
Yxy	5.4574, 0.1566, 0.0846
Android (android.graphics.Color)	4278201534 (0xFF002CBE)
YUV	47.4880, 70.2584, -41.6470
Hunter-Lab	23.3610, 36.3186, -107.9306

Details

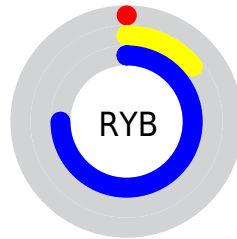
The CIELCh color **28, 90.631, 301.385** is a dark color, and the websafe version is hex **0033CC**. A complement of this color would be **63, 67.518, 85.171**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 90.900, 301.401**, and **14, 82.247, 305.898** is the 20% darker color. If you saturate the color by 10%, you get **28, 90.605, 301.433**, and if you desaturate by 10%, it is **32, 81.451, 298.614**.

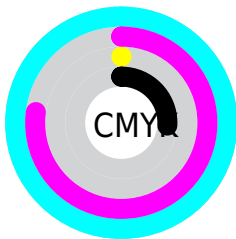
Distribution



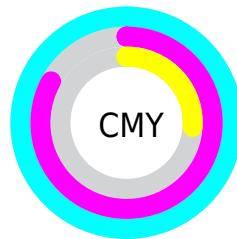
- Red (0%)
- Green (17%)
- Blue (75%)



- Red (0%)
- Yellow (14%)
- Blue (75%)



- Cyan (100%)
- Magenta (77%)
- Yellow (0%)
- Black (26%)





- Cyan (100%)
- Magenta (83%)
- Yellow (26%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 90.631, 301.385 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, 90.631, 301.385 by changing the saturation by 10% instead.

 28, 90.631,
301.385


 28, 90.631,
301.385

 100, 90.631,
301.385

 18, 90.631,
301.385


 48, 90.631,
301.385


 8, 90.631, 301.385

 58, 90.631,
301.385

 0, 90.631, 301.385

 68, 90.631,
301.385

 78, 90.631,
301.385

 88, 90.631,
301.385

 98, 90.631,

301.385

■ 28, 90.631,
301.385

■ 28, 90.631,
301.385

■ 28, 90.605,
301.433

■ 32, 81.451,
298.614

■ 36, 71.652,
295.507

■ 40, 61.770,
292.431

■ 45, 52.099,
289.565

■ 50, 42.731,
286.999

■ 56, 33.671,
284.758

■ 61, 24.893,
282.828

■ 66, 16.371,
281.176

■ 72, 8.082, 279.768

Harmonies

Complementary

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



28, 90.631, 301.385



63, 67.518, 85.171

Rectangle

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



28, 90.631, 301.385



28, 90.631, 351.385



28, 90.631, 121.385



28, 90.631, 171.385

Sweetspot

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



28, 90.605, 301.433



78, 30.924, 282.916



69, 51.936, 167.564



39, 21.399, 283.710



99, 0.012, 296.813



52, 0.007, 296.813

Same Dimension

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



28, 90.605, 301.433



37, 112.321, 301.890



25, 104.483, 307.905



37, 4.560, 279.685



23, 78.224, 301.036



2, 14.622, 283.144

Inverse Universe

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



40, 72.994, 27.212



52, 89.867, 28.213



71, 80.985, 118.251



37, 4.283, 1.790



33, 63.420, 26.366



3, 12.614, 6.392

Previews

White Background



This preview shows how the CIE LCh color 28, 90.631, 301.385 looks on a white background.

Color Contrast Check

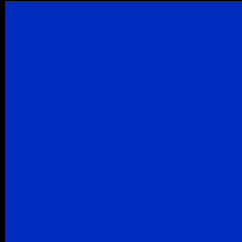
Large Text (above 18pt) WCAG AA ✓ Pass

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, 90.631, 301.385 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

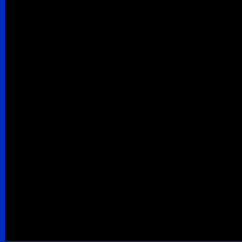
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 90.631, 301.385

Background



This preview shows how black text looks on a background with the CIELCh color 28, 90.631, 301.385.



This preview shows how white text looks on a background with the CIELCh color 28, 90.631, 301.385.

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, 90.631, 301.385

Protanopia

28, 46.169, 285.283

Deuteranopia

28, 31.673, 270.015



Tritanopia
28, 19.955, 204.109

Trichromacy



Original Color
28, 90.631, 301.385

Protanomaly
28, 62.825, 294.022

Deuteranomaly
27, 53.049, 289.846

Tritanomaly
26, 37.367, 279.046

Monochromacy



Original Color
28, 90.631, 301.385

Achromatopsia
19, 0.004, 296.813

Achromatomaly
21, 35.796, 291.033

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 90.631, 301.385 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, 44, 190)` looks like.

```
.text, #text, p{  
    color:rgb(0, 44, 190)  
}
```

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, 44, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 44, 190) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 90.631, 301.385 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, 44, 190) }
```

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

```
.border{ border-color:rgb(0, 44, 190) }
```

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

Here you see how a box with a 4 pixel rgb(0, 44, 190) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 44, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 44, 190);  
box-shadow:4px 4px 4px 4px rgb(0, 44, 190)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 90.631, 301.385 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 44, 190) }
```

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

```
.background{ background-color: rgb(0, 44,  
190) }
```

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