

Converting Colors

CIELCh(28, 89.751, 306.199)

Have a look what the booklet for
CIELCh(28, 89.751, 306.199)
contains.

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Color

CIELCh(28, 89.772, 306.238)

Conversions

Conversions Part 1

Format	Color
Hex	3D21B5
RGB	61, 33, 181
RGB Percent	24%, 13%, 71%
CMY	0.7592, 0.8695, 0.2890
CMYK	0.66, 0.82, 0.00, 0.29
HSL	251°, 69%, 42%
HSV	251°, 82%, 71%
XYZ	10.8733, 5.4574, 44.3633
YIQ	58.2440, -30.8200, 51.9640

Conversions

Conversions Part 2

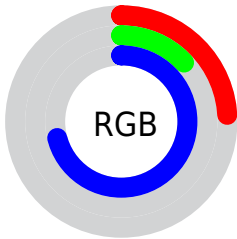
Format	Color
R_{YB}	61, 33, 181
Decimal	4006325
CIE _{Lab}	28.00, 53.07, -72.41
CIE _{LCh}	28, 89.772, 306.238
Yxy	5.4574, 0.1791, 0.0899
Android (android.graphics.Color)	4282196405 (0xFF3D21B5)
YUV	58.2440, 60.5187, 2.4170
Hunter-Lab	23.3610, 42.2003, -96.2408

Details

The CIELCh color **28, 89.772, 306.238** is a dark color, and the websafe version is hex **3333CC**. A complement of this color would be **70, 70.858, 113.330**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 89.738, 306.331**, and **13, 79.820, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **25, 97.624, 306.909**, and if you desaturate by 10%, it is **32, 79.511, 305.161**.

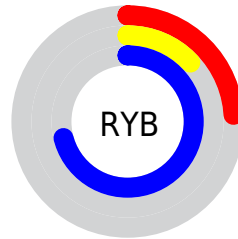
Distribution



Red (24%)

Green (13%)

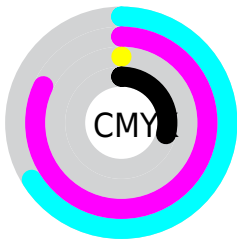
Blue (71%)



Red (24%)

Yellow (13%)

Blue (71%)

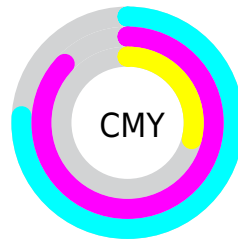


Cyan (66%)

Magenta (82%)

Yellow (0%)

Black (29%)



Cyan (76%)


Magenta (87%)


Yellow (29%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 89.772, 306.238 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, 89.772, 306.238 by changing the saturation by 10% instead.

 28, 89.772,
306.238

 28, 89.772,
306.238

 100, 89.772,
306.238

 18, 89.772,
306.238


 48, 89.772,
306.238

 8, 89.772, 306.238

 58, 89.772,
306.238

 0, 89.772, 306.238

 68, 89.772,
306.238

 78, 89.772,
306.238

 88, 89.772,
306.238

 98, 89.772,

306.238

■ 28, 89.772,
306.238

■ 28, 89.772,
306.238

■ 25, 97.624,
306.909

■ 32, 79.511,
305.161

■ 23, 102.138,
307.184

■ 38, 68.080,
303.896

■ 43, 56.314,
302.608

■ 49, 44.658,
301.391

■ 55, 33.313,
300.287

■ 61, 22.355,
299.310

■ 67, 11.801,
298.457

■ 73, 1.642, 297.714

■ 79, 8.142, 117.083

Harmonies

Complementary

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



28, 89.772, 306.238



70, 70.858, 113.330

Rectangle

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



28, 89.772, 306.238



28, 89.772, 356.238



28, 89.772, 126.238



28, 89.772, 176.238

Sweetspot

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



28, 89.773, 306.239



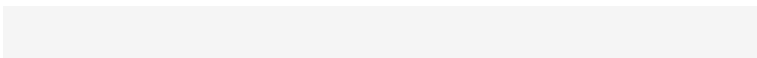
75, 30.725, 299.566



59, 32.121, 226.178



37, 21.233, 299.907



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



28, 89.773, 306.239



31, 123.067, 307.046



37, 85.017, 317.676



36, 5.777, 298.277



19, 91.106, 307.263



1, 15.475, 295.780

Inverse Universe

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



43, 73.678, 335.824



53, 93.310, 337.517



66, 80.934, 131.888



36, 6.057, 330.722



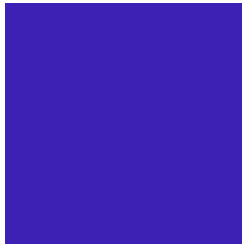
35, 69.052, 337.405



3, 15.535, 333.390

Previews

White Background



This preview shows how the CIE LCh color 28, 89.772, 306.238 looks on a white background.

Color Contrast Check

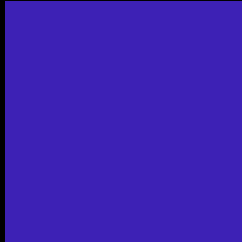
Large Text (above 18pt) WCAG AA ✓ Pass

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, 89.772, 306.238 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

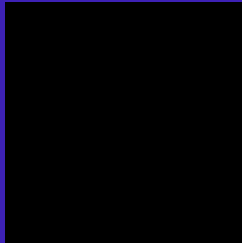
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 89.772, 306.238

Background



This preview shows how black text looks on a background with the CIELCh color 28, 89.772, 306.238.



This preview shows how white text looks on a background with the CIELCh color 28, 89.772, 306.238.

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, 89.772, 306.238

Protanopia

28, 46.169, 285.283

Deuteranopia

28, 32.204, 271.215



Tritanopia
28, 19.870, 206.095

Trichromacy



Original Color
28, 89.772, 306.238

Protanomaly
27, 63.575, 296.388

Deuteranomaly
26, 54.464, 293.442

Tritanomaly
25, 37.701, 284.298

Monochromacy



Original Color
28, 89.772, 306.238

Achromatopsia
25, 0.004, 296.813

Achromatomaly
24, 35.156, 302.214

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 89.772, 306.238 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(61, 33, 181)` looks like.

```
.text, #text, p{  
    color:rgb(61, 33, 181)  
}
```

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(61, 33, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 33, 181) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 89.772, 306.238 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(61, 33, 181) }
```

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

```
.border{ border-color:rgb(61, 33, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 33, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 33, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 33, 181);  
box-shadow:4px 4px 4px 4px rgb(61, 33,  
181) }
```

Background

The CSS property to change the background color of an element to CIELCh 28, 89.772, 306.238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 33, 181) }
```

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

```
.background{ background-color: rgb(61, 33,  
181) }
```

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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