

Converting Colors

CIELCh(30, 88.144, 316.574)

Have a look what the booklet for
CIELCh(30, 88.144, 316.574)
contains.

CIELCh(30, 87.666, 316.529)	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(30, 87.666, 316.529)

Conversions

Conversions Part 1

Format	Color
Hex	7000A7
RGB	112, 0, 167
RGB Percent	44%, 0%, 65%
CMY	0.5607, 0.9999, 0.3451
CMYK	0.33, 1.00, 0.00, 0.35
HSL	280°, 100%, 33%
HSV	280°, 100%, 65%
XYZ	13.6590, 6.2359, 37.0463
YIQ	52.5260, 13.1450, 75.6810

Conversions

Conversions Part 2

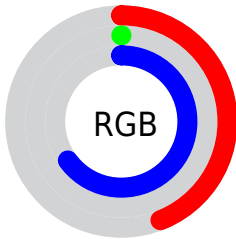
Format	Color
R_{YB}	112, 0, 167
Decimal	7340199
CIE _{Lab}	30.00, 63.62, -60.31
CIE _{LCh}	30, 87.666, 316.529
Yxy	6.2359, 0.2399, 0.1095
Android (android.graphics.Color)	4285530279 (0xFF7000A7)
YUV	52.5260, 56.4357, 52.1587
Hunter-Lab	24.9718, 53.9351, -70.4780

Details

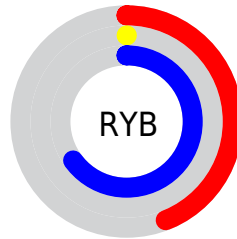
The CIELCh color **30, 87.666, 316.529** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **60, 83.364, 132.481**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **50, 87.491, 316.494**, and **15, 68.954, 311.801** is the 20% darker color. If you saturate the color by 10%, you get **30, 87.669, 316.529**, and if you desaturate by 10%, it is **32, 84.126, 317.047**.

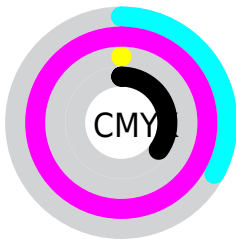
Distribution



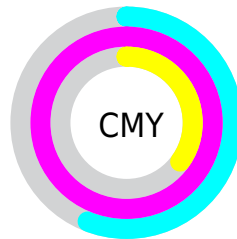
- Red (44%)
- Green (0%)
- Blue (65%)



- Red (44%)
- Yellow (0%)
- Blue (65%)



- Cyan (33%)
- Magenta (100%)
- Yellow (0%)
- Black (35%)





- Cyan (56%)
- Magenta (100%)
- Yellow (35%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 30, 87.666, 316.529 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 30, 87.666, 316.529 by changing the saturation by 10% instead.


 30, 87.666,
316.529


 30, 87.666,
316.529

 100, 87.666,
316.529


 20, 87.666,
316.529


 50, 87.666,
316.529


 10, 87.666,
316.529

 60, 87.666,
316.529

 0, 87.666, 316.529

 70, 87.666,
316.529

 80, 87.666,
316.529

 90, 87.666,
316.529

■ 30, 87.666,
316.529

■ 30, 87.666,
316.529

■ 30, 87.669,
316.529

■ 32, 84.126,
317.047

■ 34, 78.735,
317.333

■ 37, 71.306,
317.353

■ 41, 62.371,
317.178

■ 45, 52.467,
316.871

■ 49, 42.036,
316.486

■ 54, 31.399,
316.062

■ 59, 20.767,

315.625

■ 64, 10.274,
315.191

Harmonies

Complementary

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



30, 87.666, 316.529



60, 83.364, 132.481

Rectangle

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



30, 87.666, 316.529



30, 87.666, 6.529



30, 87.666, 136.529



30, 87.666, 186.529

Sweetspot

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



30, 87.666, 316.529



69, 38.845, 316.086



28, 70.681, 296.318



34, 26.770, 316.260



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



30, 87.666, 316.529



40, 106.584, 316.349



38, 73.984, 336.123



33, 5.852, 315.161



26, 80.135, 316.628



1, 10.374, 312.277

Inverse Universe

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



35, 62.927, 17.946



46, 76.790, 19.073



60, 83.116, 138.024



33, 4.081, 354.759



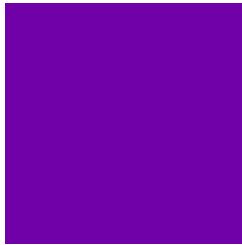
31, 57.416, 17.332



2, 7.142, 357.114

Previews

White Background



This preview shows how the CIELCh color 30, 87.666, 316.529 looks on a white background.

Color Contrast Check

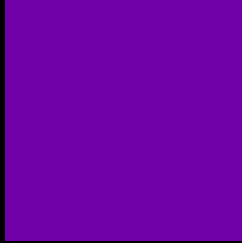
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 30, 87.666, 316.529 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

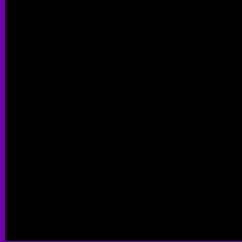
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 30, 87.666, 316.529

Background



This preview shows how black text looks on a background with the CIELCh color 30, 87.666, 316.529.



This preview shows how white text looks on a background with the CIELCh color 30, 87.666, 316.529.

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

30, 87.666, 316.529

Protanopia

31, 49.821, 285.488

Deuteranopia

31, 35.993, 273.197



Tritanopia
31, 14.035, 9.023

Trichromacy



Original Color
30, 87.666, 316.529

Protanomaly
26, 70.758, 301.260

Deuteranomaly
25, 61.296, 299.446

Tritanomaly
28, 44.641, 325.414

Monochromacy



Original Color
30, 87.666, 316.529

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 41.392, 317.060

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 30, 87.666, 316.529 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(112, 0, 167)` looks like.

```
.text, #text, p{  
    color:rgb(112, 0, 167)  
}
```

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(112, 0, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 0, 167) }
```

Border

The CSS property to change the border of an element to CIELCh 30, 87.666, 316.529 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(112, 0, 167) }
```

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

```
.border{ border-color:rgb(112, 0, 167) }
```

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

Here you see how a box with a 4 pixel rgb(112, 0, 167) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 0, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 0, 167);  
box-shadow:4px 4px 4px 4px rgb(112, 0,  
167) }
```

Background

The CSS property to change the background color of an element to CIELCh 30, 87.666, 316.529 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 0, 167) }
```

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

```
.background{ background-color: rgb(112, 0,  
167) }
```

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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