

Converting Colors

CIELCh(12, 48.306, 301.883)

Have a look what the booklet for
CIELCh(12, 48.306, 301.883)
contains.

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Color

CIELCh(12, 47.888, 301.718)

Conversions

Conversions Part 1

Format	Color
Hex	141559
RGB	20, 21, 89
RGB Percent	8%, 8%, 35%
CMY	0.9216, 0.9176, 0.6510
CMYK	0.78, 0.76, 0.00, 0.65
HSL	239°, 63%, 21%
HSV	239°, 78%, 35%
XYZ	2.3599, 1.4064, 9.5986
YIQ	28.4530, -22.4240, 20.9360

Conversions

Conversions Part 2

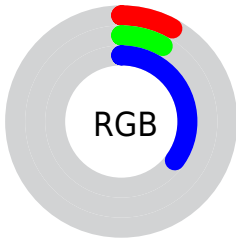
Format	Color
R_{YB}	20, 21, 89
Decimal	1316185
CIE _{Lab}	12.00, 25.18, -40.74
CIE _{LCh}	12, 47.888, 301.718
Yxy	1.4064, 0.1766, 0.1052
Android (android.graphics.Color)	4279506265 (0xFF141559)
YUV	28.4530, 29.8497, -7.4133
Hunter-Lab	11.8591, 14.7673, -39.6876

Details

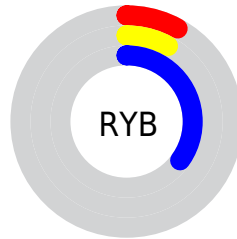
The CIELCh color **12, 47.888, 301.718** is a dark color, and the websafe version is hex **000033**. A complement of this color would be **36, 38.177, 103.108**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 48.037, 301.602**, and **2, 25.188, 291.935** is the 20% darker color. If you saturate the color by 10%, you get **9, 53.937, 303.658**, and if you desaturate by 10%, it is **15, 41.287, 299.632**.

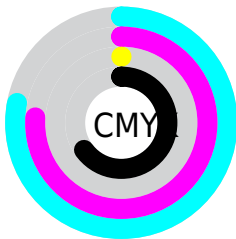
Distribution



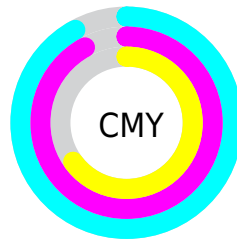
- Red (8%)
- Green (8%)
- Blue (35%)



- Red (8%)
- Yellow (8%)
- Blue (35%)



- Cyan (78%)
- Magenta (76%)
- Yellow (0%)
- Black (65%)



- Cyan (92%)
- Magenta (92%)
- Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 47.888, 301.718 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 12, 47.888, 301.718 by changing the saturation by 10% instead.

■ 12, 47.888,
301.718

■ 12, 47.888,
301.718

■ 100, 47.888,
301.718

■ 2, 47.888, 301.718

■ 32, 47.888,
301.718

■ 0, 47.888, 301.718

■ 42, 47.888,
301.718


■ 52, 47.888,
301.718


■ 62, 47.888,
301.718


■ 72, 47.888,
301.718

■ 82, 47.888,


301.718

 92, 47.888,
301.718


 12, 47.888,
301.718

 12, 47.888,
301.718


 9, 53.937, 303.658


 15, 41.287,
299.632


 7, 59.491, 305.346

 18, 34.599,
297.597

 7, 60.912, 305.721

 21, 28.047,
295.727

 25, 21.715,
294.069

 28, 15.622,
292.625

■ 32, 9.760, 291.380

■ 35, 4.117, 290.315

■ 39, 1.323, 109.356

■ 42, 6.575, 108.587

Harmonies

Complementary

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



12, 47.888, 301.718



36, 38.177, 103.108

Rectangle

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



12, 47.888, 301.718



12, 47.888, 351.718



12, 47.888, 121.718



12, 47.888, 171.718

Sweetspot

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



12, 47.888, 301.719



39, 15.980, 292.129



34, 21.351, 194.649



18, 11.200, 292.443



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



12, 47.888, 301.719



13, 69.404, 304.970



15, 47.095, 312.025



16, 3.002, 290.436



10, 69.828, 305.957



30, 125.043, 306.158

Inverse Universe

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



19, 36.210, 30.011



23, 52.756, 35.603



34, 42.019, 125.723



16, 2.127, 18.646



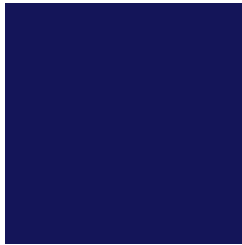
21, 52.347, 36.008



49, 97.585, 39.557

Previews

White Background



This preview shows how the CIE LCh color 12, 47.888, 301.718 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 12, 47.888, 301.718 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

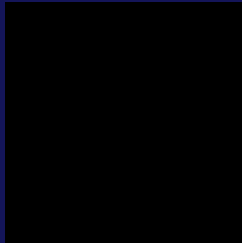
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 47.888, 301.718

Background



This preview shows how black text looks on a background with the CIELCh color 12, 47.888, 301.718.



This preview shows how white text looks on a background with the CIELCh color 12, 47.888, 301.718.

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


12, 47.888, 301.718

Protanopia

12, 25.797, 281.024

Deuteranopia

12, 17.803, 262.865



Tritanopia
12, 12.729, 203.160

Trichromacy



Original Color
12, 47.888, 301.718

Protanomaly
11, 33.969, 292.298

Deuteranomaly
12, 28.376, 287.537

Tritanomaly
11, 19.615, 275.511

Monochromacy



Original Color
12, 47.888, 301.718

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 18.438, 295.849

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 47.888, 301.718 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(20, 21, 89)` looks like.

```
.text, #text, p{  
    color:rgb(20, 21, 89)  
}
```

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(20, 21, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 21, 89) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 47.888, 301.718 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(20, 21, 89) }
```

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

```
.border{ border-color:rgb(20, 21, 89) }
```

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

Here you see how a box with a 4 pixel rgb(20, 21, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 21, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 21, 89);  
box-shadow:4px 4px 4px 4px rgb(20, 21, 89)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 47.888, 301.718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 21, 89) }
```

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

```
.background{ background-color: rgb(20, 21,  
89) }
```

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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