

Converting Colors

CIELCh(12, 45.978, 301.201)

Have a look what the booklet for
CIELCh(12, 45.978, 301.201)
contains.

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Color

CIELCh(12, 45.933, 301.090)

Conversions

Conversions Part 1

Format	Color
Hex	141657
RGB	20, 22, 87
RGB Percent	8%, 9%, 34%
CMY	0.9219, 0.9140, 0.6591
CMYK	0.77, 0.75, 0.00, 0.66
HSL	238°, 63%, 21%
HSV	238°, 77%, 34%
XYZ	2.2899, 1.4064, 9.1526
YIQ	28.8120, -22.0570, 19.7910

Conversions

Conversions Part 2

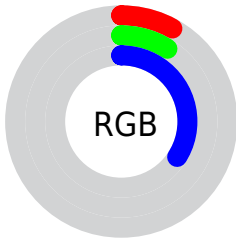
Format	Color
R_{YB}	20, 22, 87
Decimal	1316439
CIE _{Lab}	12.00, 23.72, -39.34
CIE _{LCh}	12, 45.933, 301.090
Yxy	1.4064, 0.1782, 0.1095
Android (android.graphics.Color)	4279506519 (0xFF141657)
YUV	28.8120, 28.6867, -7.7281
Hunter-Lab	11.8591, 13.7131, -37.4576

Details

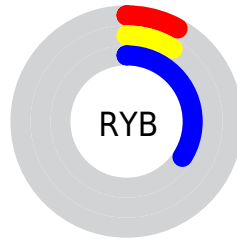
The CIELCh color **12, 45.933, 301.090** is a dark color, and the websafe version is hex **000033**. A complement of this color would be **35, 36.874, 102.321**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 46.154, 301.192**, and **2, 23.618, 291.153** is the 20% darker color. If you saturate the color by 10%, you get **9, 51.941, 303.123**, and if you desaturate by 10%, it is **15, 39.507, 298.957**.

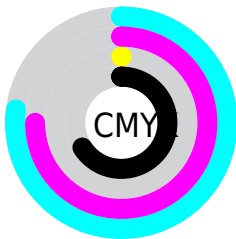
Distribution



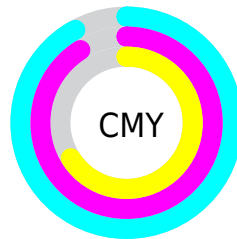
- Red (8%)
- Green (9%)
- Blue (34%)



- Red (8%)
- Yellow (9%)
- Blue (34%)



- Cyan (77%)
- Magenta (75%)
- Yellow (0%)
- Black (66%)



- Cyan (92%)
- Magenta (91%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 45.933, 301.090 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, 45.933, 301.090 by changing the saturation by 10% instead.

■ 12, 45.933,
301.090

■ 12, 45.933,
301.090

■ 100, 45.933,
301.090

■ 2, 45.933, 301.090

■ 32, 45.933,
301.090

■ 0, 45.933, 301.090

■ 42, 45.933,
301.090


■ 52, 45.933,
301.090


■ 62, 45.933,
301.090

■ 72, 45.933,
301.090

■ 82, 45.933,


301.090

 92, 45.933,
301.090


 12, 45.933,
301.090

 12, 45.933,
301.090


 9, 51.941, 303.123


 15, 39.507,
298.957


 7, 57.333, 304.817

 18, 33.053,
296.904

 7, 58.911, 305.237

 21, 26.752,
295.031

 25, 20.668,
293.373

 28, 14.811,
291.932

■ 31, 9.174, 290.689

■ 35, 3.743, 289.625

■ 38, 1.498, 108.664

■ 41, 6.561, 107.891

Harmonies

Complementary

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



12, 45.933, 301.090



35, 36.874, 102.321

Rectangle

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



12, 45.933, 301.090



12, 45.933, 351.090



12, 45.933, 121.090



12, 45.933, 171.090

Sweetspot

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



12, 45.933, 301.091



38, 15.421, 291.494



33, 21.122, 192.718



17, 10.603, 291.788



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



12, 45.933, 301.091



12, 67.456, 304.633



15, 46.020, 311.563



16, 2.953, 289.791



10, 68.924, 305.596



30, 124.400, 306.016

Inverse Universe

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



18, 35.006, 28.744



22, 51.395, 34.781



33, 40.872, 125.119



16, 2.127, 17.356



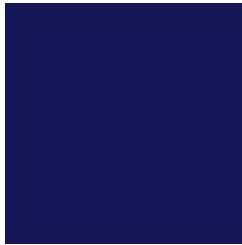
21, 51.984, 35.379



49, 96.962, 39.084

Previews

White Background



This preview shows how the CIE LCh color 12, 45.933, 301.090 looks on a white background.

Color Contrast Check

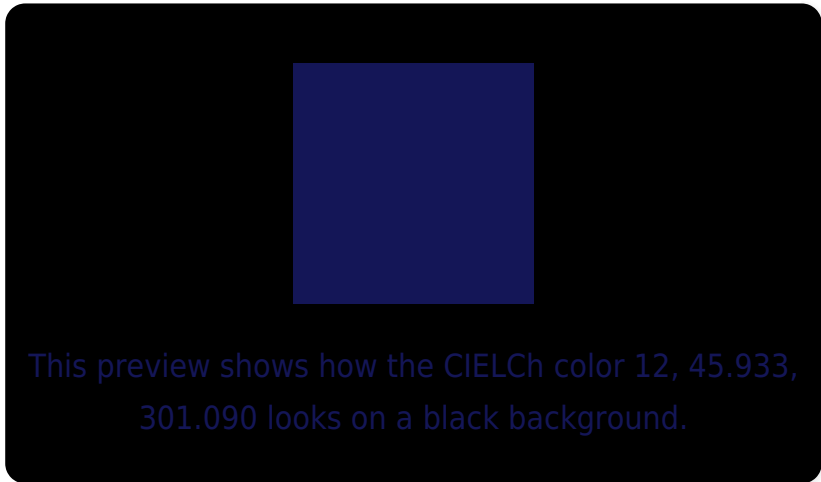
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



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, 45.933, 301.090

Background



This preview shows how black text looks on a background with the CIELCh color 12, 45.933, 301.090.



This preview shows how white text looks on a background with the CIELCh color 12, 45.933, 301.090.

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, 45.933, 301.090

Protanopia

12, 25.797, 281.024

Deuteranopia

12, 17.803, 262.865



Tritanopia
12, 12.729, 203.160

Trichromacy



Original Color
12, 45.933, 301.090

Protanomaly
12, 33.197, 291.389

Deuteranomaly
12, 26.952, 285.720

Tritanomaly
11, 18.974, 274.302

Monochromacy



Original Color
12, 45.933, 301.090

Achromatopsia
11, 0.003, 296.813

Achromatomaly
10, 17.637, 295.545

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 45.933, 301.090 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, 22, 87)` looks like.

```
.text, #text, p{  
    color:rgb(20, 22, 87)  
}
```

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, 22, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 22, 87) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 45.933, 301.090 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, 22, 87) }
```

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

```
.border{ border-color:rgb(20, 22, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 22, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 22, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 22, 87);  
box-shadow:4px 4px 4px 4px rgb(20, 22, 87)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 45.933, 301.090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 22, 87) }
```

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

```
.background{ background-color: rgb(20, 22,  
87) }
```

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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