

Converting Colors

CIELCh(13, 49.045, 263.904)

Have a look what the booklet for
CIELCh(13, 49.045, 263.904)
contains.

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Color

CIELCh(18, 42.506, 290.203)

Conversions

Conversions Part 1

Format	Color
Hex	002966
RGB	0, 41, 102
RGB Percent	0%, 16%, 40%
CMY	1.0000, 0.8409, 0.5981
CMYK	1.00, 0.60, 0.00, 0.60
HSL	216°, 100%, 20%
HSV	216°, 100%, 40%
XYZ	3.1869, 2.5180, 13.0116
YIQ	35.6950, -44.0170, 10.2790

Conversions

Conversions Part 2

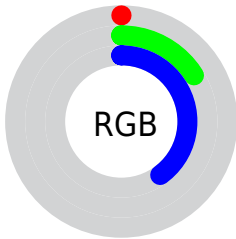
Format	Color
RYB	0, 29, 102
Decimal	10598
CIELab	18.00, 14.68, -39.89
CIELCh	18, 42.506, 290.203
Yxy	2.5180, 0.1703, 0.1345
Android (android.graphics.Color)	4278200678 (0xFF002966)
YUV	35.6950, 32.6884, -31.3045
Hunter-Lab	15.8683, 8.0798, -37.5084

Details

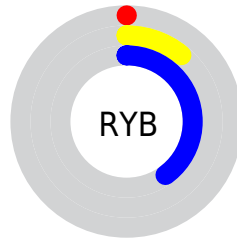
The CIELCh color **18, 42.506, 290.203** is a dark color, and the websafe version is hex **003366**. A complement of this color would be **30, 42.180, 71.715**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 41.728, 289.738**, and **2, 36.099, 297.925** is the 20% darker color. If you saturate the color by 10%, you get **18, 42.490, 290.337**, and if you desaturate by 10%, it is **20, 37.891, 286.955**.

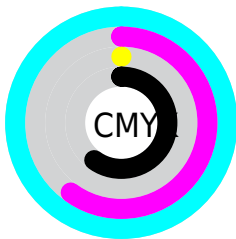
Distribution



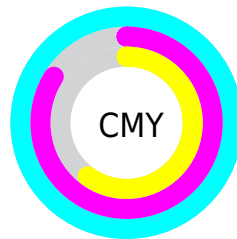
- Red (0%)
- Green (16%)
- Blue (40%)



- Red (0%)
- Yellow (11%)
- Blue (40%)



- Cyan (100%)
- Magenta (60%)
- Yellow (0%)
- Black (60%)




- Cyan (100%)
- Magenta (84%)
- Yellow (60%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 42.506, 290.203 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 18, 42.506, 290.203 by changing the saturation by 10% instead.

 18, 42.506,
290.203

 18, 42.506,
290.203


 100, 42.506,
290.203

 8, 42.506, 290.203


 38, 42.506,
290.203

 0, 42.506, 290.203

 48, 42.506,
290.203

 58, 42.506,
290.203


 68, 42.506,
290.203


 78, 42.506,
290.203


 88, 42.506,


290.203


 98, 42.506,
290.203


 18, 42.506,
290.203

 18, 42.506,
290.203


 18, 42.490,
290.337

 20, 37.891,
286.955

 23, 33.437,
283.349

 25, 29.088,
280.017

 27, 24.820,
277.032

 30, 20.610,
274.412

■ 33, 16.436,
272.143

■ 35, 12.291,
270.190

■ 38, 8.169, 268.515

■ 41, 4.073, 267.089

Harmonies

Complementary

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



18, 42.506, 290.203



30, 42.180, 71.715

Rectangle

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



18, 42.506, 290.203



18, 42.506, 340.203



18, 42.506, 110.203



18, 42.506, 160.203

Sweetspot

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



18, 42.490, 290.337



45, 15.193, 270.344



38, 39.822, 156.159



21, 10.291, 270.894



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



18, 42.490, 290.337



24, 52.609, 291.545



9, 67.864, 306.877



20, 2.277, 266.949



21, 46.677, 290.906



45, 86.233, 293.405

Inverse Universe

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



20, 43.260, 8.924



27, 52.090, 10.488



41, 49.932, 108.641



19, 2.786, 350.366



23, 46.903, 9.650



52, 81.813, 13.067

Previews

White Background



This preview shows how the CIE LCh color 18, 42.506, 290.203 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 18, 42.506, 290.203 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

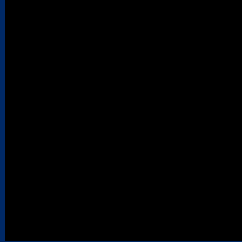
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 42.506, 290.203

Background



This preview shows how black text looks on a background with the CIELCh color 18, 42.506, 290.203.



This preview shows how white text looks on a background with the CIELCh color 18, 42.506, 290.203.

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


18, 41.873, 289.862

Protanopia

18, 34.100, 283.797

Deuteranopia

18, 24.288, 269.736



Tritanopia
18, 15.459, 204.355

Trichromacy



Original Color
18, 41.873, 289.862

Protanomaly
18, 37.339, 286.703

Deuteranomaly
18, 30.913, 280.302

Tritanomaly
18, 19.601, 256.803

Monochromacy



Original Color
18, 41.873, 289.862

Achromatopsia
14, 0.003, 296.813

Achromatomaly
15, 16.813, 276.674

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 42.506, 290.203 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, 41, 102)` looks like.

```
.text, #text, p{  
    color:rgb(0, 41, 102)  
}
```

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, 41, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 41, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 42.506, 290.203 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, 41, 102) }
```

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

```
.border{ border-color:rgb(0, 41, 102) }
```

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

Here you see how a box with a 4 pixel rgb(0, 41, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 41, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 41, 102);  
box-shadow:4px 4px 4px 4px rgb(0, 41, 102)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 42.506, 290.203 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 41, 102) }
```

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

```
.background{ background-color: rgb(0, 41,  
102) }
```

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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