

Converting Colors

CIELCh(10, 68.669, 305.477)

Have a look what the booklet for
CIELCh(10, 68.669, 305.477)
contains.

CIELCh(10, 68.482, 305.435)	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(10, 68.482, 305.435)

Conversions

Conversions Part 1

Format	Color
Hex	00046B
RGB	0, 4, 107
RGB Percent	0%, 2%, 42%
CMY	1.0000, 0.9855, 0.5821
CMYK	1.00, 0.97, 0.00, 0.58
HSL	238°, 100%, 21%
HSV	238°, 100%, 42%
XYZ	2.6584, 1.1260, 13.8671
YIQ	14.5460, -35.4470, 31.1850

Conversions

Conversions Part 2

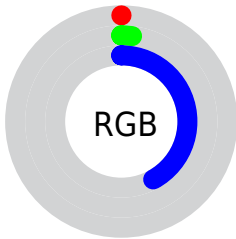
Format	Color
RYB	0, 4, 107
Decimal	1131
CIELab	10.00, 39.70, -55.80
CIELCh	10, 68.482, 305.435
Yxy	1.1260, 0.1506, 0.0638
Android (android.graphics.Color)	4278191211 (0xFF00046B)
YUV	14.5460, 45.5798, -12.7568
Hunter-Lab	10.6114, 26.1478, -70.0530

Details

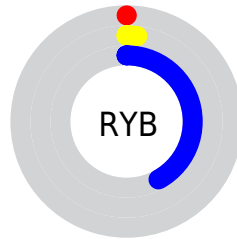
The CIELCh color **10, 68.482, 305.435** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **42, 49.778, 100.738**, and the grayscale version is **4, 0.001, 296.812**.

A 20% lighter version of the original color is **30, 68.741, 305.523**, and **4, 37.010, 298.022** is the 20% darker color. If you saturate the color by 10%, you get **10, 68.429, 305.494**, and if you desaturate by 10%, it is **12, 62.866, 303.968**.

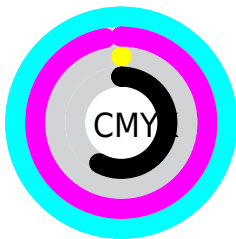
Distribution



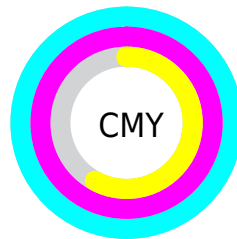
- Red (0%)
- Green (2%)
- Blue (42%)



- Red (0%)
- Yellow (2%)
- Blue (42%)



- Cyan (100%)
- Magenta (97%)
- Yellow (0%)
- Black (58%)



- Cyan (100%)
- Magenta (99%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 68.482, 305.435 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 10, 68.482, 305.435 by changing the saturation by 10% instead.

■ 10, 68.482,
305.435

■ 10, 68.482,
305.435

■ 100, 68.482,
305.435

■ 0, 68.482, 305.435

■ 30, 68.482,
305.435

■ 40, 68.482,
305.435

■ 50, 68.482,
305.435


■ 60, 68.482,
305.435


■ 70, 68.482,
305.435


■ 80, 68.482,

305.435


 90, 68.482,
305.435

 10, 68.482,
305.435


 10, 68.482,
305.435


 10, 68.429,
305.494

 12, 62.866,
303.968

 15, 56.278,
302.009

 18, 48.853,
299.824

 22, 41.224,
297.651

 25, 33.712,
295.633

■ 29, 26.441,
293.835

■ 33, 19.445,
292.268

■ 37, 12.718,
290.919

■ 41, 6.245, 289.765

Harmonies

Complementary

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



10, 68.482, 305.435



42, 49.778, 100.738

Rectangle

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



10, 68.482, 305.435



10, 68.482, 355.435



10, 68.482, 125.435



10, 68.482, 175.435

Sweetspot

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



10, 68.429, 305.494



43, 24.036, 292.387



40, 27.433, 189.355



19, 16.373, 292.844



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



10, 68.429, 305.494



15, 82.829, 305.695



14, 65.995, 311.388



20, 3.517, 289.657



12, 73.474, 305.575



31, 128.363, 305.994

Inverse Universe

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



20, 51.665, 35.146



28, 63.999, 37.549



40, 56.064, 125.454



21, 2.547, 17.041



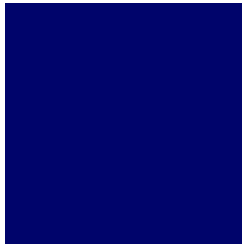
23, 56.044, 36.210



51, 100.034, 39.011

Previews

White Background



This preview shows how the CIELCh color 10, 68.482, 305.435 looks on a white background.

Color Contrast Check

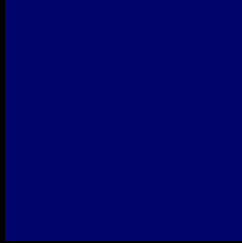
Large Text (above 18pt) WCAG AA ✓ Pass

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 10, 68.482, 305.435 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

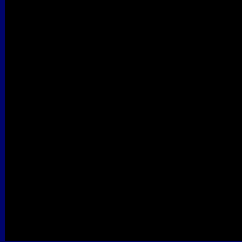
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 68.482, 305.435

Background



This preview shows how black text looks on a background with the CIELCh color 10, 68.482, 305.435.



This preview shows how white text looks on a background with the CIELCh color 10, 68.482, 305.435.

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

10, 68.482, 305.435

Protanopia

12, 25.143, 280.179

Deuteranopia

12, 17.758, 263.683



Tritanopia
12, 12.868, 199.732

Trichromacy



Original Color
10, 68.482, 305.435

Protanomaly
10, 42.752, 297.066

Deuteranomaly
10, 38.034, 294.769

Tritanomaly
9, 28.311, 287.559

Monochromacy



Original Color
10, 68.482, 305.435

Achromatopsia
4, 0.001, 296.812

Achromatomaly
4, 26.959, 296.179

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 68.482, 305.435 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, 4, 107)` looks like.

```
.text, #text, p{  
    color:rgb(0, 4, 107)  
}
```

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, 4, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 4, 107) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 68.482, 305.435 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, 4, 107) }
```

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

```
.border{ border-color:rgb(0, 4, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 4, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 4, 107); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 4, 107); box-shadow:4px  
4px 4px 4px rgb(0, 4, 107) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 68.482, 305.435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 4, 107) }
```

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

```
.background{ background-color: rgb(0, 4,  
107) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor