

# Converting Colors

CIELCh(10, 64.159, 308.672)

Have a look what the booklet for  
CIELCh(10, 64.159, 308.672)  
contains.

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**Color**

**CIELCh(10, 64.116, 308.704)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1C0062
RGB	28, 0, 98
RGB Percent	11%, 0%, 38%
CMY	0.8905, 1.0000, 0.6159
CMYK	0.71, 1.00, 0.00, 0.62
HSL	257°, 100%, 19%
HSV	257°, 100%, 38%
XYZ	2.6788, 1.1260, 11.6187
YIQ	19.5440, -14.7700, 36.4140

# Conversions

## Conversions Part 2

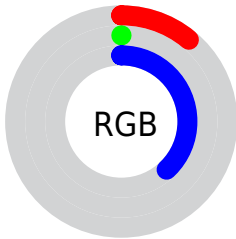
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	28, 0, 98
Decimal	1835106
CIE <sub>Lab</sub>	10.00, 40.09, -50.04
CIE <sub>LCh</sub>	10, 64.116, 308.704
Yxy	1.1260, 0.1737, 0.0730
Android (android.graphics.Color)	4280025186 (0xFF1C0062)
YUV	19.5440, 38.6788, 7.4159
Hunter-Lab	10.6114, 26.4909, -57.4903

# Details

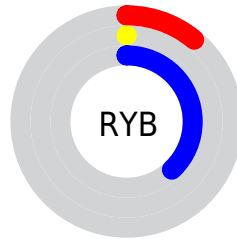
The CIELCh color **10, 64.116, 308.704** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **38, 50.223, 118.315**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 64.125, 308.648**, and **3, 31.049, 294.783** is the 20% darker color. If you saturate the color by 10%, you get **10, 64.098, 308.698**, and if you desaturate by 10%, it is **12, 58.640, 307.982**.

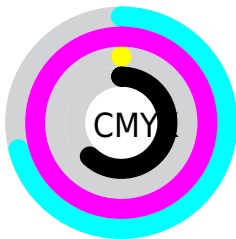
# Distribution



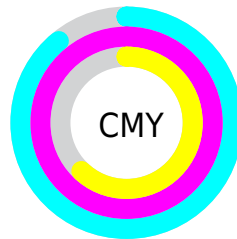
- Red (11%)
- Green (0%)
- Blue (38%)



- Red (11%)
- Yellow (0%)
- Blue (38%)



- Cyan (71%)
- Magenta (100%)
- Yellow (0%)
- Black (62%)




- Cyan (89%)
- Magenta (100%)
- Yellow (62%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 10, 64.116, 308.704 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, 64.116, 308.704 by changing the saturation by 10% instead.





 10, 64.116,  
308.704


 10, 64.116,  
308.704


 100, 64.116,  
308.704


 0, 64.116, 308.704

 30, 64.116,  
308.704

 40, 64.116,  
308.704


 50, 64.116,  
308.704


 60, 64.116,  
308.704


 70, 64.116,  
308.704


 80, 64.116,


308.704


 90, 64.116,  
308.704

 10, 64.116,  
308.704


 10, 64.116,  
308.704


 10, 64.098,  
308.698

 12, 58.640,  
307.982

 15, 53.111,  
307.432

 18, 46.660,  
306.644

 21, 39.781,  
305.751

 24, 32.790,  
304.845

■ 28, 25.864,  
303.978

■ 31, 19.095,  
303.177

■ 35, 12.521,  
302.453

■ 38, 6.158, 301.807

# Harmonies

# Complementary

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



10, 64.116, 308.704



38, 50.223, 118.315

# Rectangle

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



10, 64.116, 308.704



10, 64.116, 358.704



10, 64.116, 128.704



10, 64.116, 178.704

# Sweetspot

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



10, 64.098, 308.698



40, 23.753, 303.246



28, 23.149, 249.646



18, 16.138, 303.467



77, 0.009, 296.813



27, 0.004, 296.813





# Same Dimension

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



10, 64.098, 308.698



15, 77.583, 308.420



18, 58.444, 320.567



18, 3.417, 301.739



12, 70.682, 308.545



33, 124.461, 307.998



# Inverse Universe

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



20, 46.745, 342.618



28, 56.074, 343.181



36, 57.681, 133.786



18, 3.316, 334.211



24, 51.297, 342.922

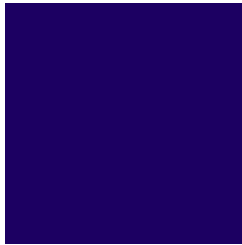


53, 88.662, 344.144



# Previews

## White Background



This preview shows how the CIE LCh color 10, 64.116, 308.704 looks on a white background.

## Color Contrast Check

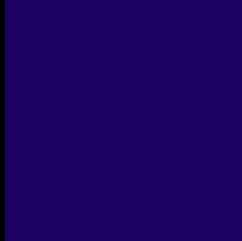
Large Text (above 18pt) WCAG AA ✓ Pass

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, 64.116, 308.704 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

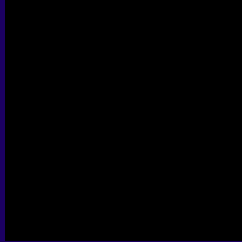
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 10, 64.116, 308.704**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 10, 64.116, 308.704.



This preview shows how white text looks on a background with the CIELCh color 10, 64.116, 308.704.

# 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, 64.116, 308.704


### Protanopia

12, 25.143, 280.179

### Deuteranopia

12, 17.758, 263.683





**Tritanopia**  
12, 12.729, 203.160

# Trichromacy



**Original Color**  
10, 64.116, 308.704

**Protanomaly**  
10, 41.296, 298.838

**Deuteranomaly**  
9, 36.561, 296.962

**Tritanomaly**  
9, 27.428, 291.568

# Monochromacy



**Original Color**  
10, 64.116, 308.704

**Achromatopsia**  
6, 0.002, 296.812

**Achromatomaly**  
6, 26.124, 305.310

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 10, 64.116, 308.704 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(28, 0, 98)` looks like.

```
.text, #text, p{  
    color:rgb(28, 0, 98)  
}
```

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(28, 0, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 0, 98) }
```

## Border

The CSS property to change the border of an element to CIELCh 10, 64.116, 308.704 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(28, 0, 98) }
```

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

```
.border{ border-color:rgb(28, 0, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(28, 0, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 0, 98); -webkit-box-shadow:4px  
4px 4px 4px rgb(28, 0, 98); box-shadow:4px  
4px 4px 4px rgb(28, 0, 98) }
```

# Background

The CSS property to change the background color of an element to CIELCh 10, 64.116, 308.704 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(28, 0, 98) }
```

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

```
.background{ background-color: rgb(28, 0,  
98) }
```

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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