

# Converting Colors

CIELCh(12, 42.640, 318.534)

Have a look what the booklet for  
CIELCh(12, 42.640, 318.534)  
contains.

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**Color**

**CIELCh(12, 42.586, 318.529)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	350947
RGB	53, 9, 71
RGB Percent	21%, 4%, 28%
CMY	0.7922, 0.9648, 0.7216
CMYK	0.25, 0.87, 0.00, 0.72
HSL	283°, 78%, 16%
HSV	283°, 87%, 28%
XYZ	2.7020, 1.4064, 6.0881
YIQ	29.2240, 6.3220, 28.6100

# Conversions

## Conversions Part 2

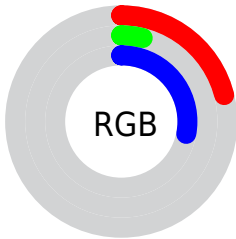
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	53, 9, 71
Decimal	3475783
CIE <sub>Lab</sub>	12.00, 31.91, -28.20
CIE <sub>LCh</sub>	12, 42.586, 318.529
Yxy	1.4064, 0.2650, 0.1379
Android (android.graphics.Color)	4281665863 (0xFF350947)
YUV	29.2240, 20.5956, 20.8516
Hunter-Lab	11.8591, 19.9164, -22.1364

# Details

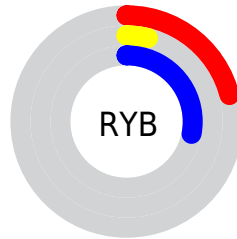
The CIELCh color **12, 42.586, 318.529** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **26, 40.888, 132.482**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 42.243, 318.264**, and **1, 14.128, 289.097** is the 20% darker color. If you saturate the color by 10%, you get **11, 46.241, 318.582**, and if you desaturate by 10%, it is **13, 38.960, 318.541**.

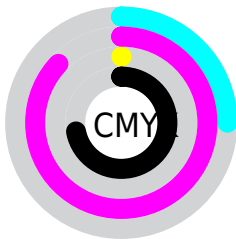
# Distribution



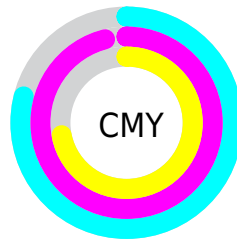
- Red (21%)
- Green (4%)
- Blue (28%)



- Red (21%)
- Yellow (4%)
- Blue (28%)



- Cyan (25%)
- Magenta (87%)
- Yellow (0%)
- Black (72%)




- Cyan (79%)
- Magenta (96%)
- Yellow (72%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 12, 42.586, 318.529 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, 42.586, 318.529 by changing the saturation by 10% instead.




 12, 42.586,  
318.529


 12, 42.586,  
318.529


 100, 42.586,  
318.529


 2, 42.586, 318.529


 32, 42.586,  
318.529

 0, 42.586, 318.529

 42, 42.586,  
318.529


 52, 42.586,  
318.529


 62, 42.586,  
318.529


 72, 42.586,  
318.529


 82, 42.586,


318.529


 92, 42.586,  
318.529


 12, 42.586,  
318.529


 12, 42.586,  
318.529


 11, 46.241,  
318.582


 13, 38.960,  
318.541

 10, 47.313,  
318.631

 15, 34.650,  
318.402

 17, 29.854,  
318.152

 19, 24.761,  
317.829

 21, 19.516,  
317.463

■ 24, 14.223,  
317.076

■ 26, 8.954, 316.684

■ 28, 3.757, 316.289

■ 31, 1.341, 136.011

# Harmonies

# Complementary

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



12, 42.586, 318.529



26, 40.888, 132.482

# Rectangle

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



12, 42.586, 318.529



12, 42.586, 8.529



12, 42.586, 138.529



12, 42.586, 188.529

# Sweetspot

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



12, 42.585, 318.529



31, 16.738, 317.063



11, 31.437, 291.093



14, 11.190, 317.119



71, 0.009, 296.813



19, 0.004, 296.813





# Same Dimension

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



12, 42.585, 318.529



15, 56.472, 318.298



15, 36.980, 336.045



13, 2.869, 316.339



17, 59.744, 318.207



43, 109.533, 317.549



# Inverse Universe

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



13, 30.387, 11.562



17, 40.905, 17.642



26, 38.866, 141.976



13, 1.938, 357.280



19, 43.368, 18.281

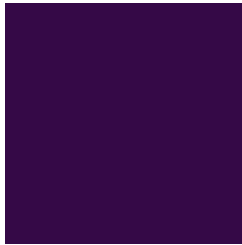


48, 81.068, 22.818



# Previews

## White Background



This preview shows how the CIELCh color 12, 42.586, 318.529 looks on a white background.

## Color Contrast Check

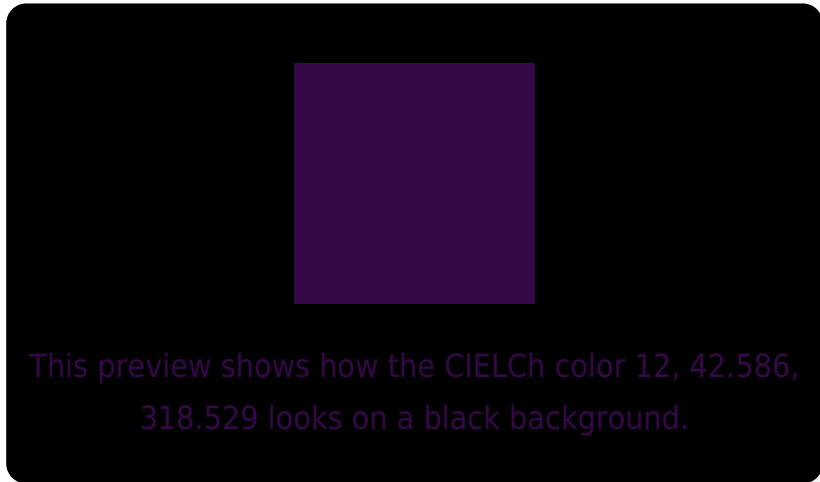
Large Text (above 18pt) WCAG AA ✓ Pass

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

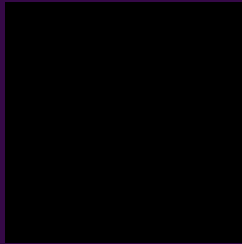
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 12, 42.586, 318.529**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 12, 42.586, 318.529.



This preview shows how white text looks on a background with the CIELCh color 12, 42.586, 318.529.

# 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, 42.586, 318.529

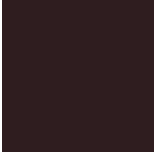
### Protanopia

13, 26.349, 280.581

### Deuteranopia

13, 19.519, 266.967





**Tritanopia**  
13, 9.462, 13.588

# Trichromacy



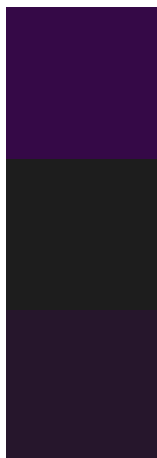
**Original Color**  
12, 42.586, 318.529

**Protanomaly**  
11, 33.336, 297.200

**Deuteranomaly**  
11, 27.648, 293.894

**Tritanomaly**  
12, 20.619, 330.303

# Monochromacy



**Original Color**  
12, 42.586, 318.529

**Achromatopsia**  
11, 0.003, 296.813

**Achromatomaly**  
10, 17.554, 318.312

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 12, 42.586, 318.529 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(53, 9, 71)` looks like.

```
.text, #text, p{  
    color:rgb(53, 9, 71)  
}
```

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(53, 9, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(53, 9, 71) }
```

## Border

The CSS property to change the border of an element to CIELCh 12, 42.586, 318.529 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(53, 9, 71) }
```

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

```
.border{ border-color:rgb(53, 9, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(53, 9, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(53, 9, 71); -webkit-box-shadow:4px  
4px 4px 4px rgb(53, 9, 71); box-shadow:4px  
4px 4px 4px rgb(53, 9, 71) }
```

# Background

The CSS property to change the background color of an element to CIELCh 12, 42.586, 318.529 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(53, 9, 71) }
```

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

```
.background{ background-color: rgb(53, 9,  
71) }
```

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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