

Converting Colors

CIELCh(0, 83.149, 324.744)

Have a look what the booklet for
CIELCh(0, 83.149, 324.744) contains.

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Color

CIELCh(10, 47.158, 319.312)

Conversions

Conversions Part 1

Format	Color
Hex	330046
RGB	51, 0, 70
RGB Percent	20%, 0%, 27%
CMY	0.8003, 1.0000, 0.7257
CMYK	0.27, 1.00, 0.00, 0.73
HSL	284°, 100%, 14%
HSV	284°, 100%, 27%
XYZ	2.4564, 1.1260, 5.8742
YIQ	23.2290, 7.9260, 32.5820

Conversions

Conversions Part 2

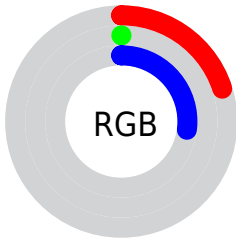
Format	Color
R_{YB}	51, 0, 70
Decimal	3342406
CIE _{Lab}	10.00, 35.76, -30.74
CIE _{LCh}	10, 47.158, 319.312
Yxy	1.1260, 0.2598, 0.1191
Android (android.graphics.Color)	4281532486 (0xFF330046)
YUV	23.2290, 23.0581, 24.3552
Hunter-Lab	10.6114, 22.7499, -25.3934

Details

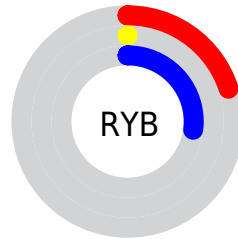
The CIELCh color **10, 47.158, 319.312** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **25, 44.735, 132.442**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 46.822, 319.333**, and **1, 12.512, 288.908** is the 20% darker color. If you saturate the color by 10%, you get **10, 46.718, 319.196**, and if you desaturate by 10%, it is **12, 42.974, 319.088**.

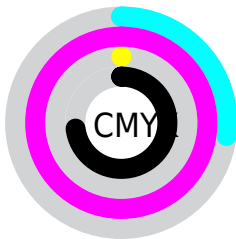
Distribution



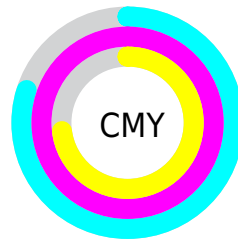
- Red (20%)
- Green (0%)
- Blue (27%)



- Red (20%)
- Yellow (0%)
- Blue (27%)



- Cyan (27%)
- Magenta (100%)
- Yellow (0%)
- Black (73%)





- Cyan (80%)
- Magenta (100%)
- Yellow (73%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 47.158, 319.312 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, 47.158, 319.312 by changing the saturation by 10% instead.


 10, 47.158,
319.312


 10, 47.158,
319.312


 100, 47.158,
319.312


 0, 47.158, 319.312

 30, 47.158,
319.312

 40, 47.158,
319.312


 50, 47.158,
319.312


 60, 47.158,
319.312


 70, 47.158,
319.312


 80, 47.158,


319.312


 90, 47.158,
319.312


 10, 47.158,
319.312


 10, 47.158,
319.312

 10, 46.718,
319.196

 12, 42.974,
319.088

 13, 39.530,
319.112

 15, 35.462,
319.009

 16, 30.852,
318.788

 18, 25.892,
318.485

■ 21, 20.737,
318.132

■ 23, 15.503,
317.751

■ 25, 10.270,
317.360

■ 27, 5.092, 316.966

Harmonies

Complementary

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



10, 47.158, 319.312



25, 44.735, 132.442

Rectangle

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



10, 47.158, 319.312



10, 47.158, 9.312



10, 47.158, 139.312



10, 47.158, 189.312

Sweetspot

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



10, 46.718, 319.196



30, 19.437, 317.799



8, 37.042, 295.181



13, 13.077, 317.871



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



10, 46.718, 319.196



15, 56.307, 318.858



13, 39.160, 337.804



13, 2.883, 316.911



17, 59.567, 318.771



44, 109.170, 318.142

Inverse Universe

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



12, 33.792, 16.224



17, 41.183, 19.224



25, 41.842, 141.083



13, 1.921, 358.565



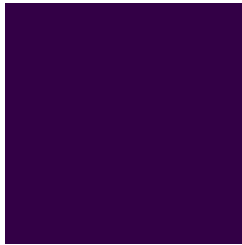
19, 43.681, 19.868



48, 81.887, 24.419

Previews

White Background



This preview shows how the CIELCh color 10, 47.158, 319.312 looks on a white background.

Color Contrast Check

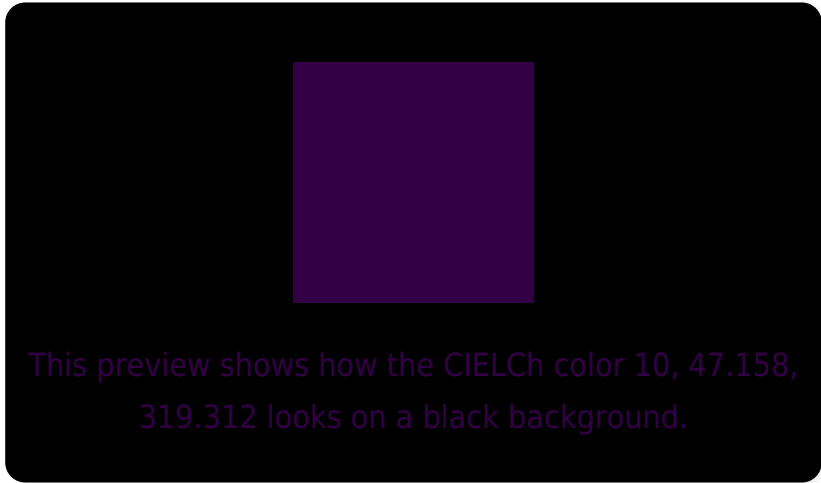
Large Text (above 18pt) WCAG AA ✓ Pass

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

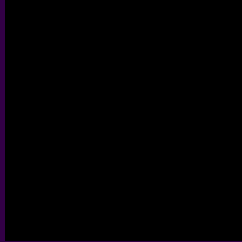
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 47.158, 319.312

Background



This preview shows how black text looks on a background with the CIELCh color 10, 47.158, 319.312.



This preview shows how white text looks on a background with the CIELCh color 10, 47.158, 319.312.

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, 46.736, 319.216

Protanopia

12, 25.797, 281.024

Deuteranopia

12, 18.891, 266.998



Tritanopia
12, 9.024, 13.055

Trichromacy



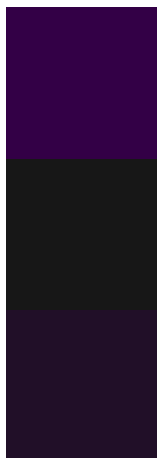
Original Color
10, 46.736, 319.216

Protanomaly
9, 34.412, 299.639

Deuteranomaly
9, 30.207, 298.083

Tritanomaly
10, 22.893, 330.309

Monochromacy



Original Color
10, 46.736, 319.216

Achromatopsia
8, 0.002, 296.812

Achromatomaly
7, 20.060, 318.343

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 47.158, 319.312 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(51, 0, 70)` looks like.

```
.text, #text, p{  
    color:rgb(51, 0, 70)  
}
```

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(51, 0, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 0, 70) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 47.158, 319.312 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(51, 0, 70) }
```

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

```
.border{ border-color:rgb(51, 0, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 0, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 0, 70); -webkit-box-shadow:4px  
4px 4px 4px rgb(51, 0, 70); box-shadow:4px  
4px 4px 4px rgb(51, 0, 70) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 47.158, 319.312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 0, 70) }
```

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

```
.background{ background-color: rgb(51, 0,  
70) }
```

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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