

Converting Colors

CIELCh(10, 48.100, 317.359)

Have a look what the booklet for
CIELCh(10, 48.100, 317.359)
contains.

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Color

CIELCh(10, 48.516, 317.468)

Conversions

Conversions Part 1

Format	Color
Hex	310049
RGB	49, 0, 73
RGB Percent	19%, 0%, 29%
CMY	0.8084, 1.0000, 0.7143
CMYK	0.33, 1.00, 0.00, 0.71
HSL	280°, 100%, 14%
HSV	280°, 100%, 29%
XYZ	2.4560, 1.1260, 6.3660
YIQ	22.9730, 5.7710, 33.0910

Conversions

Conversions Part 2

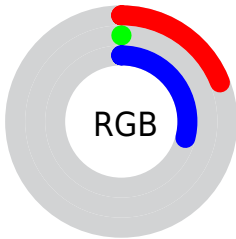
Format	Color
R_{YB}	49, 0, 73
Decimal	3211337
CIE _{Lab}	10.00, 35.75, -32.80
CIE _{LCh}	10, 48.516, 317.468
Yxy	1.1260, 0.2469, 0.1132
Android (android.graphics.Color)	4281401417 (0xFF310049)
YUV	22.9730, 24.6633, 22.8257
Hunter-Lab	10.6114, 22.7440, -28.1413

Details

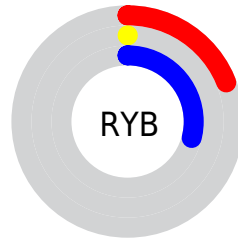
The CIELCh color **10, 48.516, 317.468** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **27, 45.500, 131.202**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 48.288, 317.570**, and **1, 14.532, 288.124** is the 20% darker color. If you saturate the color by 10%, you get **10, 48.456, 317.451**, and if you desaturate by 10%, it is **12, 44.501, 317.330**.

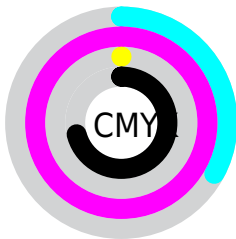
Distribution



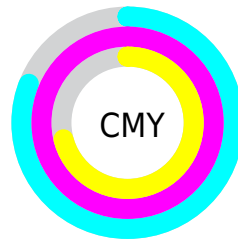
- Red (19%)
- Green (0%)
- Blue (29%)



- Red (19%)
- Yellow (0%)
- Blue (29%)



- Cyan (33%)
- Magenta (100%)
- Yellow (0%)
- Black (71%)




- Cyan (81%)
- Magenta (100%)
- Yellow (71%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 48.516, 317.468 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, 48.516, 317.468 by changing the saturation by 10% instead.

 10, 48.516,
317.468

 10, 48.516,
317.468

 100, 48.516,
317.468

 0, 48.516, 317.468

 30, 48.516,
317.468

 40, 48.516,
317.468

 50, 48.516,
317.468

 60, 48.516,
317.468

 70, 48.516,
317.468


 80, 48.516,


317.468


 90, 48.516,
317.468


 10, 48.516,
317.468


 10, 48.516,
317.468

 10, 48.456,
317.451

 12, 44.501,
317.330

 13, 40.856,
317.366

 15, 36.551,
317.256

 17, 31.715,
317.019

 19, 26.553,
316.699

■ 21, 21.223,
316.330

■ 24, 15.840,
315.939

■ 26, 10.479,
315.542

■ 28, 5.190, 315.148

Harmonies

Complementary

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



10, 48.516, 317.468



27, 45.500, 131.202

Rectangle

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



10, 48.516, 317.468



10, 48.516, 7.468



10, 48.516, 137.468



10, 48.516, 187.468

Sweetspot

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



10, 48.456, 317.451



31, 19.640, 315.984



10, 35.474, 292.521



14, 13.529, 316.069



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



10, 48.456, 317.451



15, 57.953, 317.094



14, 41.599, 335.284



13, 2.840, 315.091



16, 60.148, 317.029



42, 110.358, 316.317

Inverse Universe

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



12, 34.367, 12.151



18, 41.234, 14.381



26, 44.411, 139.691



13, 1.978, 354.591



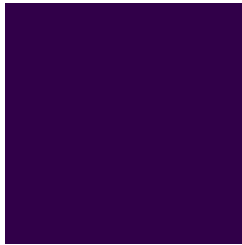
19, 42.829, 14.783



48, 79.551, 19.232

Previews

White Background



This preview shows how the CIELCh color 10, 48.516, 317.468 looks on a white background.

Color Contrast Check

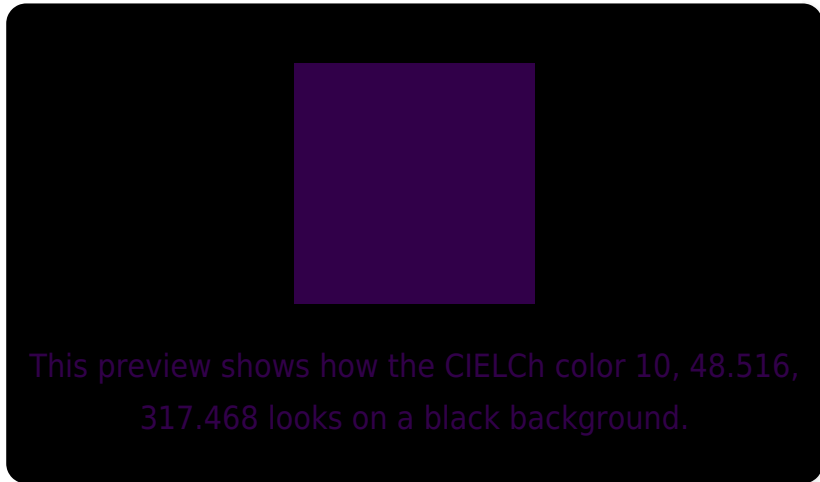
Large Text (above 18pt) WCAG AA ✓ Pass

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

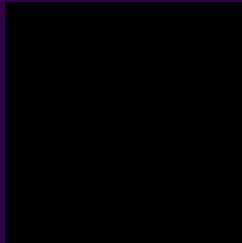
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 48.516, 317.468

Background



This preview shows how black text looks on a background with the CIELCh color 10, 48.516, 317.468.



This preview shows how white text looks on a background with the CIELCh color 10, 48.516, 317.468.

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, 48.516, 317.468

Protanopia

12, 25.143, 280.179

Deuteranopia

12, 18.318, 265.390



Tritanopia
12, 7.010, 3.626

Trichromacy



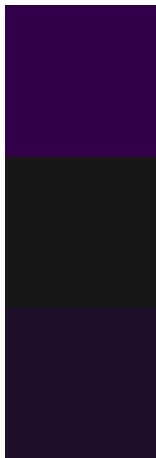
Original Color
10, 48.516, 317.468

Protanomaly
9, 35.114, 299.415

Deuteranomaly
9, 30.229, 297.613

Tritanomaly
10, 22.773, 324.868

Monochromacy



Original Color
10, 48.516, 317.468

Achromatopsia
8, 0.002, 296.812

Achromatomaly
7, 20.590, 316.289

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 48.516, 317.468 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(49, 0, 73)` looks like.

```
.text, #text, p{  
    color:rgb(49, 0, 73)  
}
```

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(49, 0, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 0, 73) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 48.516, 317.468 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(49, 0, 73) }
```

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

```
.border{ border-color:rgb(49, 0, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 0, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 0, 73); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 0, 73); box-shadow:4px  
4px 4px 4px rgb(49, 0, 73) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 48.516, 317.468 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 0, 73) }
```

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

```
.background{ background-color: rgb(49, 0,  
73) }
```

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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