

Converting Colors

CIELCh(48, 31.609, 310.626)

Have a look what the booklet for
CIELCh(48, 31.609, 310.626)
contains.

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Color

CIELCh(48, 32.168, 310.680)

Conversions

Conversions Part 1

Format	Color
Hex	81679B
RGB	129, 103, 155
RGB Percent	51%, 40%, 61%
CMY	0.4933, 0.5953, 0.3914
CMYK	0.17, 0.34, 0.00, 0.39
HSL	270°, 21%, 51%
HSV	270°, 34%, 61%
XYZ	19.8863, 16.7945, 33.2934
YIQ	116.7020, -1.1960, 21.6840

Conversions

Conversions Part 2

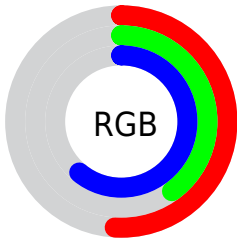
Format	Color
R_{YB}	129, 103, 155
Decimal	8480667
CIE _{Lab}	48.00, 20.97, -24.39
CIE _{LCh}	48, 32.168, 310.680
Y _{xy}	16.7945, 0.2842, 0.2400
Android (android.graphics.Color)	4286670747 (0xFF81679B)
YUV	116.7020, 18.8809, 10.7853
Hunter-Lab	40.9810, 14.9012, -19.4810

Details

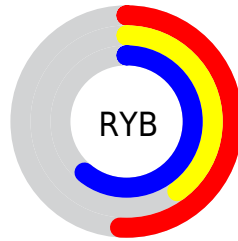
The CIELCh color $48, 32.168, 310.680$ is a dark color, and the websafe version is hex 666699 . A complement of this color would be $61, 30.714, 127.541$, and the grayscale version is $49, 0.007, 296.813$.

A 20% lighter version of the original color is $68, 32.611, 310.944$, and $28, 32.136, 310.596$ is the 20% darker color. If you saturate the color by 10%, you get $43, 42.136, 311.213$, and if you desaturate by 10%, it is $53, 22.306, 310.158$.

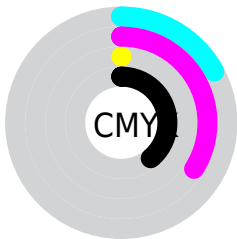
Distribution



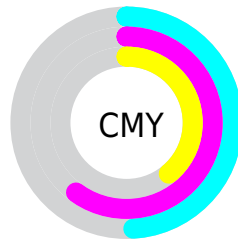
- Red (51%)
- Green (40%)
- Blue (61%)



- Red (51%)
- Yellow (40%)
- Blue (61%)



- Cyan (17%)
- Magenta (34%)
- Yellow (0%)
- Black (39%)




- Cyan (49%)
- Magenta (60%)
- Yellow (39%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 32.168, 310.680 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 48, 32.168, 310.680 by changing the saturation by 10% instead.


 48, 32.168,
310.680


 48, 32.168,
310.680


 100, 32.168,
310.680


 38, 32.168,
310.680

 68, 32.168,
310.680

 28, 32.168,
310.680

 78, 32.168,
310.680

 18, 32.168,
310.680


 88, 32.168,
310.680

 8, 32.168, 310.680

 98, 32.168,
310.680

 0, 32.168, 310.680

 48, 32.168,

 48, 32.168,

310.680

43, 42.136,
311.213

39, 52.045,
311.728

35, 61.609,
312.176

31, 70.390,
312.486

28, 77.791,
312.562

25, 83.164,
312.295

24, 85.996,
312.051

310.680

53, 22.306,
310.158

58, 12.650,
309.664

62, 3.246, 309.190

67, 5.885, 128.827

72, 14.739,
128.450

77, 23.319,
128.123

82, 31.637,
127.836

86, 39.703,
127.585

■ 91, 47.531,
127.367

Harmonies

Complementary

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



48, 32.168, 310.680



61, 30.714, 127.541

Rectangle

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



48, 32.168, 310.680



48, 32.168, 0.680



48, 32.168, 130.680



48, 32.168, 180.680

Sweetspot

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



48, 32.167, 310.680



75, 11.526, 309.507



53, 17.172, 260.698



39, 7.940, 309.569



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



48, 32.167, 310.680



58, 47.808, 311.067



51, 35.674, 326.208



30, 5.199, 309.461



21, 79.787, 312.151



1, 5.543, 308.775

Inverse Universe

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



50, 25.569, 346.759



61, 37.704, 347.621



59, 35.694, 142.097



30, 4.184, 344.357



30, 54.421, 0.968



1, 4.448, 344.104

Previews

White Background



This preview shows how the CIELCh color 48, 32.168, 310.680 looks on a white background.

Color Contrast Check

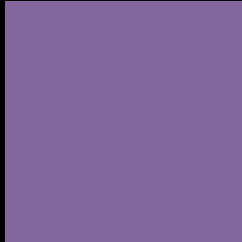
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 48, 32.168, 310.680 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

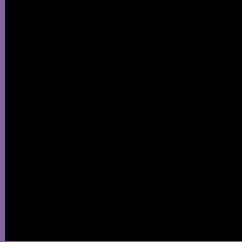
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 32.168, 310.680

Background



This preview shows how black text looks on a background with the CIELCh color 48, 32.168, 310.680.



This preview shows how white text looks on a background with the CIELCh color 48, 32.168, 310.680.

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


48, 32.168, 310.680

Protanopia

48, 29.644, 285.236

Deuteranopia

48, 24.278, 286.099



Tritanopia
48, 7.494, 335.263

Trichromacy



Original Color
48, 32.168, 310.680

Protanomaly
48, 30.116, 294.067

Deuteranomaly
48, 26.653, 296.600

Tritanomaly
48, 15.693, 316.732

Monochromacy



Original Color
48, 32.168, 310.680

Achromatopsia
49, 0.007, 296.813

Achromatomaly
49, 11.774, 308.794

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 32.168, 310.680 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(129, 103, 155)` looks like.

```
.text, #text, p{  
    color:rgb(129, 103, 155)  
}
```

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(129, 103, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 103, 155) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 32.168, 310.680 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(129, 103, 155) }
```

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

```
.border{ border-color:rgb(129, 103, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 103, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 103, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 103, 155);  
box-shadow:4px 4px 4px 4px rgb(129, 103,  
155) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 32.168, 310.680 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 103, 155) }
```

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

```
.background{ background-color: rgb(129,  
103, 155) }
```

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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