

Converting Colors

CIELCh(49, 25.482, 196.591)

Have a look what the booklet for
CIELCh(49, 25.482, 196.591)
contains.

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Color

CIELCh(49, 25.451, 196.830)

Conversions

Conversions Part 1

Format	Color
Hex	2D8080
RGB	45, 128, 128
RGB Percent	18%, 50%, 50%
CMY	0.8229, 0.4975, 0.4976
CMYK	0.65, 0.00, 0.00, 0.50
HSL	180°, 48%, 34%
HSV	180°, 65%, 50%
XYZ	12.7288, 17.5941, 23.1898
YIQ	103.1830, -49.4680, -17.5960

Conversions

Conversions Part 2

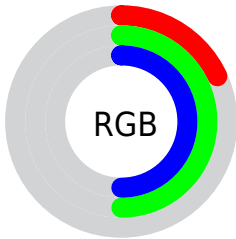
Format	Color
R_{YB}	45, 87, 128
Decimal	2982016
CIE _{Lab}	49.00, -24.36, -7.37
CIE _{LCh}	49, 25.451, 196.830
Yxy	17.5941, 0.2379, 0.3288
Android (android.graphics.Color)	4281172096 (0xFF2D8080)
YUV	103.1830, 12.2348, -51.0265
Hunter-Lab	41.9453, -19.2361, -3.4172

Details

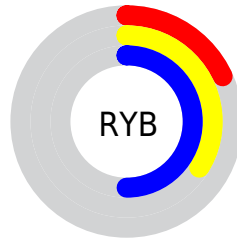
The CIELCh color **49, 25.451, 196.830** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **31, 40.640, 28.113**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 25.391, 197.398**, and **29, 21.079, 198.194** is the 20% darker color. If you saturate the color by 10%, you get **49, 27.458, 196.634**, and if you desaturate by 10%, it is **49, 22.839, 197.085**.

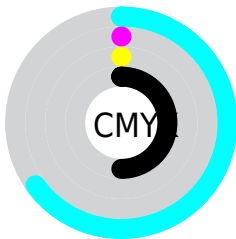
Distribution



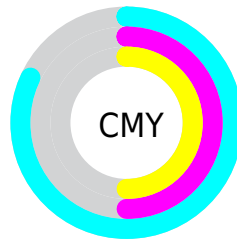
- Red (18%)
- Green (50%)
- Blue (50%)



- Red (18%)
- Yellow (34%)
- Blue (50%)



- Cyan (65%)
- Magenta (0%)
- Yellow (0%)
- Black (50%)




- Cyan (82%)
- Magenta (50%)
- Yellow (50%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 25.451, 196.830 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 49, 25.451, 196.830 by changing the saturation by 10% instead.


 49, 25.451,
196.830


 49, 25.451,
196.830


 100, 25.451,
196.830


 39, 25.451,
196.830

 69, 25.451,
196.830


 29, 25.451,
196.830

 79, 25.451,
196.830

 19, 25.451,
196.830

 89, 25.451,
196.830

 9, 25.451, 196.830

 99, 25.451,
196.830

 0, 25.451, 196.830

 49, 25.451,

 49, 25.451,

196.830

196.830

■ 49, 27.458,
196.634

■ 49, 22.839,
197.085

■ 48, 28.861,
196.499

■ 50, 19.651,
197.402

■ 48, 29.713,
196.417

■ 51, 15.942,
197.777

■ 48, 30.085,
196.382

■ 51, 11.779,
198.208

■ 52, 7.236, 198.698

■ 53, 2.390, 199.317

■ 54, 2.690, 19.542

■ 55, 7.939, 20.204

■ 57, 13.303, 20.806

Harmonies

Complementary

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



49, 25.451, 196.830



31, 40.640, 28.113

Rectangle

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



49, 25.451, 196.830



49, 25.451, 246.830



49, 25.451, 16.830



49, 25.451, 66.830

Sweetspot

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



49, 25.451, 196.828



66, 11.348, 198.461



47, 55.844, 138.700



34, 7.813, 198.343



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



49, 25.451, 196.828



62, 34.074, 196.559



36, 27.019, 266.850



26, 2.793, 199.014



48, 29.979, 196.382



0, 0.000, 0.000

Inverse Universe

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



31, 40.640, 28.113



37, 61.347, 32.766



40, 33.056, 65.955



25, 2.951, 19.872



25, 61.100, 38.345



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 49, 25.451, 196.830 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 CIELCh color 49, 25.451, 196.830 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

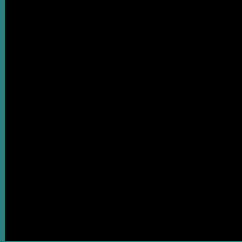
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 25.451, 196.830

Background



This preview shows how black text looks on a background with the CIELCh color 49, 25.451, 196.830.

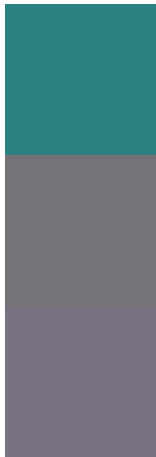


This preview shows how white text looks on a background with the CIELCh color 49, 25.451, 196.830.

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


49, 25.451, 196.830

Protanopia

49, 3.061, 305.677

Deuteranopia

49, 10.979, 305.787



Tritanopia
49, 23.708, 211.674

Trichromacy



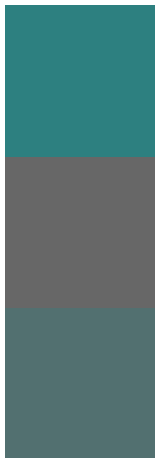
Original Color
49, 25.451, 196.830

Protanomaly
48, 10.888, 207.690

Deuteranomaly
48, 11.281, 233.819

Tritanomaly
49, 24.100, 206.997

Monochromacy



Original Color
49, 25.451, 196.830

Achromatopsia
44, 0.006, 296.813

Achromatomaly
45, 11.349, 198.136

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 25.451, 196.830 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(45, 128, 128)` looks like.

```
.text, #text, p{  
    color:rgb(45, 128, 128)  
}
```

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(45, 128, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 128, 128) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 25.451, 196.830 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(45, 128, 128) }
```

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

```
.border{ border-color:rgb(45, 128, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 128, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 128, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 128, 128);  
box-shadow:4px 4px 4px 4px rgb(45, 128,  
128) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 25.451, 196.830 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 128, 128) }
```

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

```
.background{ background-color: rgb(45, 128,  
128) }
```

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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