

# Converting Colors

CIELCh(49, 24.637, 196.803)

Have a look what the booklet for  
CIELCh(49, 24.637, 196.803)  
contains.

<b>CIELCh(49, 24.701, 196.903)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(49, 24.701, 196.903)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	318080
RGB	49, 128, 128
RGB Percent	19%, 50%, 50%
CMY	0.8086, 0.4987, 0.4987
CMYK	0.62, 0.00, 0.00, 0.50
HSL	180°, 45%, 35%
HSV	180°, 62%, 50%
XYZ	12.8377, 17.5941, 23.0810
YIQ	104.3790, -47.0840, -16.7480

# Conversions

## Conversions Part 2

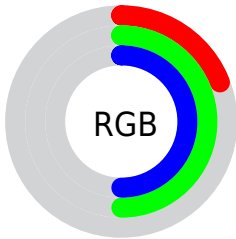
<b>Format</b>	<b>Color</b>
<b>RYB</b>	49, 89, 128
Decimal	3244160
CIELab	49.00, -23.63, -7.18
CIElCh	49, 24.701, 196.903
Yxy	17.5941, 0.2399, 0.3288
Android (android.graphics.Color)	4281434240 (0xFF318080)
YUV	104.3790, 11.6452, -48.5674
Hunter-Lab	41.9453, -18.7729, -3.2635

# Details

The CIELCh color **49, 24.701, 196.903** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **32, 38.513, 27.345**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 24.623, 197.458**, and **29, 21.079, 198.194** is the 20% darker color. If you saturate the color by 10%, you get **49, 26.884, 196.689**, and if you desaturate by 10%, it is **49, 21.920, 197.175**.

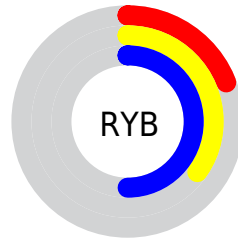
# Distribution



Red (19%)

Green (50%)

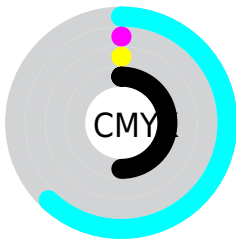
Blue (50%)



Red (19%)

Yellow (35%)

Blue (50%)

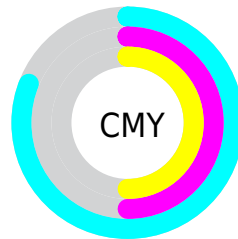


Cyan (62%)

Magenta (0%)

Yellow (0%)

Black (50%)



Cyan (81%)

Magenta (50%)

Yellow (50%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 24.701, 196.903 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, 24.701, 196.903 by changing the saturation by 10% instead.





 49, 24.701,  
196.903


 49, 24.701,  
196.903


 100, 24.701,  
196.903

 39, 24.701,  
196.903

 69, 24.701,  
196.903


 29, 24.701,  
196.903

 79, 24.701,  
196.903

 19, 24.701,  
196.903

 89, 24.701,  
196.903

 9, 24.701, 196.903

 99, 24.701,  
196.903

 0, 24.701, 196.903

 49, 24.701,

 49, 24.701,

196.903

■ 49, 26.884,  
196.689

■ 48, 28.460,  
196.537

■ 48, 29.454,  
196.442

■ 48, 30.033,  
196.387

196.903

■ 49, 21.920,  
197.175

■ 50, 18.580,  
197.509

■ 51, 14.737,  
197.901

■ 51, 10.463,  
198.349

■ 52, 5.832, 198.859

■ 53, 0.920, 199.740

■ 54, 4.206, 19.761

■ 56, 9.484, 20.384

■ 57, 14.862, 20.985



# Harmonies

# Complementary

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



49, 24.701, 196.903



32, 38.513, 27.345

# Rectangle

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



49, 24.701, 196.903



49, 24.701, 246.903



49, 24.701, 16.903



49, 24.701, 66.903

# Sweetspot

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



49, 24.701, 196.901



66, 11.348, 198.464



47, 53.874, 139.293



34, 7.813, 198.346



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, 24.701, 196.901



62, 33.322, 196.623



36, 26.427, 267.788



26, 2.793, 199.017



48, 29.978, 196.387



0, 0.000, 0.000



# Inverse Universe

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



35, 53.318, 327.422



42, 74.398, 327.847



41, 31.405, 67.929



25, 5.102, 324.897



30, 69.130, 328.233

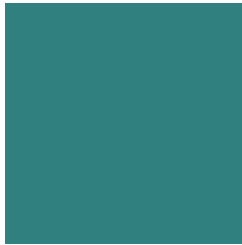


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 49, 24.701, 196.903 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, 24.701, 196.903 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

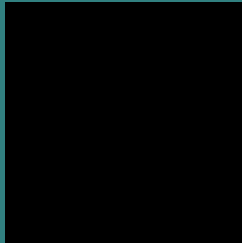
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 24.701, 196.903

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 24.701, 196.903.

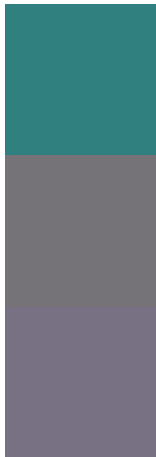


This preview shows how white text looks on a background with the CIELCh color 49, 24.701, 196.903.

# 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, 24.701, 196.903

**Protanopia**  
49, 3.061, 305.677

**Deuteranopia**  
49, 10.979, 305.787





**Tritanopia**  
49, 22.954, 213.806

# Trichromacy



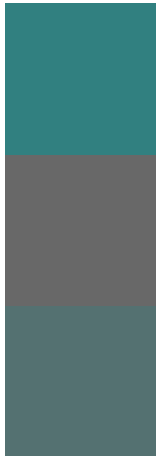
**Original Color**  
49, 24.701, 196.903

**Protanomaly**  
48, 10.549, 208.028

**Deuteranomaly**  
48, 11.063, 238.631

**Tritanomaly**  
49, 23.537, 207.288

# Monochromacy



**Original Color**  
49, 24.701, 196.903

**Achromatopsia**  
44, 0.006, 296.813

**Achromatomaly**  
45, 10.994, 198.185

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 24.701, 196.903 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, 128, 128)` looks like.

```
.text, #text, p{  
    color:rgb(49, 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(49, 128, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 128, 128) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 24.701, 196.903 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, 128, 128) }
```

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

```
.border{ border-color:rgb(49, 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(49, 128, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 128, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 128, 128);  
box-shadow:4px 4px 4px 4px rgb(49, 128,  
128) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 24.701, 196.903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 128, 128) }
```

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

```
.background{ background-color: rgb(49, 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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