

# Converting Colors

CIELCh(66, 31.928, 188.441)

Have a look what the booklet for  
CIELCh(66, 31.928, 188.441)  
contains.

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**Color**

**CIELCh(66, 31.912, 188.741)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49B0A8
RGB	73, 176, 168
RGB Percent	29%, 69%, 66%
CMY	0.7134, 0.3095, 0.3409
CMYK	0.58, 0.00, 0.05, 0.31
HSL	175°, 41%, 49%
HSV	175°, 58%, 69%
XYZ	25.3641, 35.3238, 42.5569
YIQ	144.2910, -58.8200, -24.3240

# Conversions

## Conversions Part 2

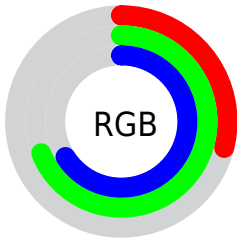
Format	Color
<a href="#">RYB</a>	<a href="#">73, 127, 176</a>
Decimal	<a href="#">4829352</a>
CIELab	<a href="#">66.00, -31.54, -4.85</a>
CIElCh	<a href="#">66, 31.912, 188.741</a>
Yxy	<a href="#">35.3238, 0.2457, 0.3421</a>
Android (android.graphics.Color)	<a href="#">4283019432</a> ( <a href="#">0xFF49B0A8</a> )
YUV	<a href="#">144.2910, 11.6885, -62.5222</a>
Hunter-Lab	<a href="#">59.4338, -27.8322, -0.8502</a>

# Details

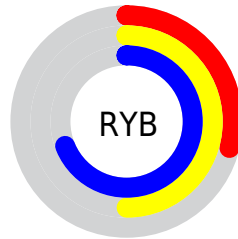
The CIELCh color **66, 31.912, 188.741** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **45, 45.864, 21.376**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 31.802, 188.673**, and **46, 30.602, 188.307** is the 20% darker color. If you saturate the color by 10%, you get **65, 35.222, 187.968**, and if you desaturate by 10%, it is **67, 27.835, 189.486**.

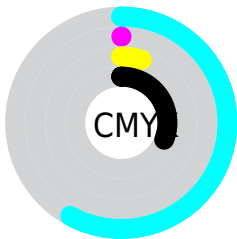
# Distribution



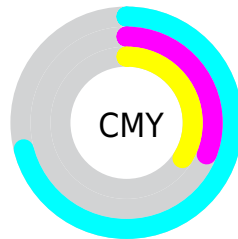
- Red (29%)
- Green (69%)
- Blue (66%)



- Red (29%)
- Yellow (50%)
- Blue (69%)



- Cyan (58%)
- Magenta (0%)
- Yellow (5%)
- Black (31%)




- Cyan (71%)
- Magenta (31%)
- Yellow (34%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 31.912, 188.741 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 66, 31.912, 188.741 by changing the saturation by 10% instead.





 66, 31.912,  
188.741


 66, 31.912,  
188.741


 100, 31.912,  
188.741


 56, 31.912,  
188.741


 86, 31.912,  
188.741

 46, 31.912,  
188.741

 96, 31.912,  
188.741

 36, 31.912,  
188.741

 26, 31.912,  
188.741

 16, 31.912,  
188.741

 6, 31.912, 188.741

 0, 31.912, 188.741

66, 31.912,  
188.741

66, 31.912,  
188.741

65, 35.222,  
187.968

67, 27.835,  
189.486

65, 37.732,  
187.156

67, 23.062,  
190.219

65, 39.458,  
186.290

68, 17.686,  
190.947

65, 40.534,  
185.365

69, 11.813,  
191.680

65, 40.680,  
185.226

71, 5.550, 192.446

72, 1.002, 12.586

74, 7.755, 13.730

75, 14.631, 14.474

77, 21.570, 15.194



# Harmonies

# Complementary

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



66, 31.912, 188.741



45, 45.864, 21.376

# Rectangle

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



66, 31.912, 188.741



66, 31.912, 238.741



66, 31.912, 8.741



66, 31.912, 58.741

# Sweetspot

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



66, 31.912, 188.739



88, 14.267, 191.694



64, 65.120, 137.934



46, 9.830, 191.484



96, 0.011, 296.813



48, 0.006, 296.813





# Same Dimension

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



66, 31.912, 188.739



83, 43.874, 187.751



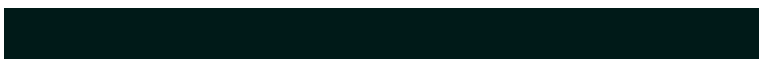
53, 29.290, 257.038



37, 3.735, 192.378



57, 36.648, 185.341



7, 9.305, 189.856



# Inverse Universe

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



45, 45.864, 21.376



54, 68.763, 25.298



54, 38.273, 59.998



35, 3.925, 13.629



31, 68.086, 36.292

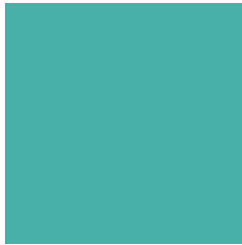


2, 9.201, 14.423



# Previews

## White Background



This preview shows how the CIELCh color 66, 31.912, 188.741 looks on a white background.

## Color Contrast Check

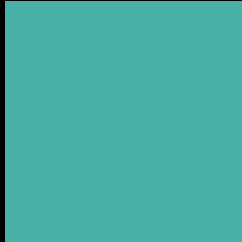
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 66, 31.912, 188.741 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

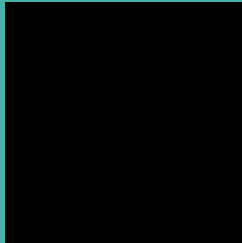
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

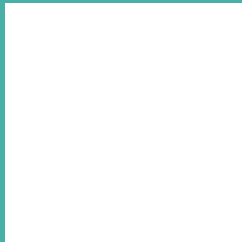
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 66, 31.912, 188.741**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 31.912, 188.741.

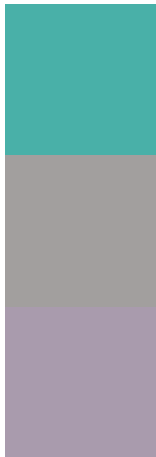


This preview shows how white text looks on a background with the CIELCh color 66, 31.912, 188.741.

# 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**  
66, 31.912, 188.741

**Protanopia**  
66, 1.268, 44.956

**Deuteranopia**  
66, 11.331, 318.572





**Tritanopia**  
66, 27.872, 213.683

# Trichromacy



**Original Color**  
66, 31.912, 188.741



**Protanomaly**  
65, 12.794, 190.796



**Deuteranomaly**  
65, 11.082, 222.396



**Tritanomaly**  
66, 28.738, 203.856

# Monochromacy



**Original Color**  
66, 31.912, 188.741



**Achromatopsia**  
60, 0.008, 296.813



**Achromatomaly**  
62, 13.886, 191.158

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 31.912, 188.741 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(73, 176, 168)` looks like.

```
.text, #text, p{  
    color:rgb(73, 176, 168)  
}
```

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(73, 176, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 176, 168) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 31.912, 188.741 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(73, 176, 168) }
```

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

```
.border{ border-color:rgb(73, 176, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 176, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 176, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 176, 168);  
box-shadow:4px 4px 4px 4px rgb(73, 176,  
168) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 31.912, 188.741 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 176, 168) }
```

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

```
.background{ background-color: rgb(73, 176,  
168) }
```

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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