

# Converting Colors

CIELCh(69, 22.504, 195.833)

Have a look what the booklet for  
CIELCh(69, 22.504, 195.833)  
contains.

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# Color

**CIELCh(69, 22.577, 196.198)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70B4B3
RGB	112, 180, 179
RGB Percent	44%, 71%, 70%
CMY	0.5608, 0.2941, 0.2980
CMYK	0.38, 0.00, 0.01, 0.29
HSL	179°, 31%, 57%
HSV	179°, 38%, 71%
XYZ	31.1420, 39.3444, 48.6031
YIQ	159.5540, -40.2070, -14.7270

# Conversions

## Conversions Part 2

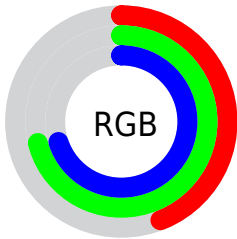
Format	Color
<a href="#">RYB</a>	<a href="#">112, 146, 180</a>
Decimal	<a href="#">7386291</a>
CIELab	<a href="#">69.00, -21.68, -6.30</a>
CIElCh	<a href="#">69, 22.577, 196.198</a>
Yxy	<a href="#">39.3444, 0.2615, 0.3304</a>
Android (android.graphics.Color)	<a href="#">4285576371</a> ( <a href="#">0xFF70B4B3</a> )
YUV	<a href="#">159.5540, 9.5869, -41.7049</a>
Hunter-Lab	<a href="#">62.7251, -21.1465, -2.0338</a>

# Details

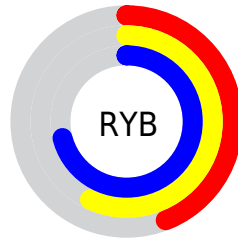
The CIELCh color **69, 22.577, 196.198** is a light color, and the websafe version is hex **669999**. A complement of this color would be **55, 29.138, 21.808**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 22.490, 196.605**, and **49, 22.680, 195.580** is the 20% darker color. If you saturate the color by 10%, you get **68, 27.236, 195.755**, and if you desaturate by 10%, it is **70, 17.270, 196.682**.

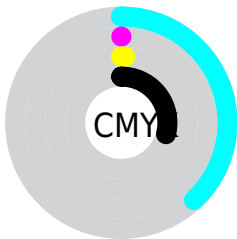
# Distribution



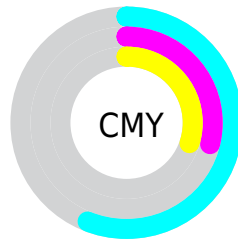
- Red (44%)
- Green (71%)
- Blue (70%)



- Red (44%)
- Yellow (57%)
- Blue (71%)



- Cyan (38%)
- Magenta (0%)
- Yellow (1%)
- Black (29%)



- Cyan (56%)
- Magenta (29%)
- Yellow (30%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 22.577, 196.198 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 69, 22.577, 196.198 by changing the saturation by 10% instead.



 69, 22.577,  
196.198

 69, 22.577,  
196.198

 100, 22.577,  
196.198

 59, 22.577,  
196.198

 89, 22.577,  
196.198

 49, 22.577,  
196.198

 99, 22.577,  
196.198

 39, 22.577,  
196.198

 29, 22.577,  
196.198

 19, 22.577,  
196.198

 9, 22.577, 196.198

 0, 22.577, 196.198

69, 22.577,  
196.198

69, 22.577,  
196.198

68, 27.236,  
195.755

70, 17.270,  
196.682

68, 31.157,  
195.363

71, 11.418,  
197.217

67, 34.278,  
195.017

72, 5.128, 197.826

67, 36.572,  
194.713

74, 1.499, 17.970

75, 8.369, 18.855

67, 38.062,  
194.446

77, 15.404, 19.504

66, 38.865,  
194.205

79, 22.537, 20.147

80, 29.310, 20.738

66, 39.012,  
194.153

80, 29.295, 20.468

# Harmonies

# Complementary

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



69, 22.577, 196.198



55, 29.138, 21.808

# Rectangle

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



69, 22.577, 196.198



69, 22.577, 246.198



69, 22.577, 16.198



69, 22.577, 66.198

# Sweetspot

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



69, 22.577, 196.195



91, 8.921, 197.604



68, 45.036, 141.294



48, 5.969, 197.522



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



69, 22.577, 196.195



87, 32.140, 195.840



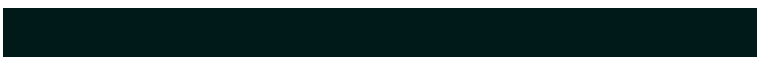
60, 21.386, 259.814



37, 3.695, 197.722



57, 34.598, 194.181



7, 9.154, 197.325





# Inverse Universe

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



55, 29.138, 21.808



66, 44.133, 23.144



63, 24.047, 69.043



35, 3.910, 18.718



31, 70.379, 38.938

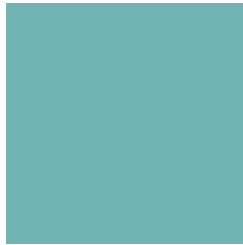


2, 9.159, 18.457



# Previews

## White Background



This preview shows how the CIELCh color 69, 22.577, 196.198 looks on a white background.

## Color Contrast Check

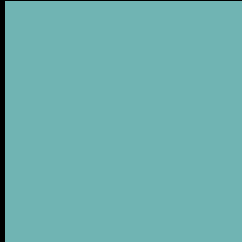
Large Text (above 18pt) WCAG AA × Fail

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 69, 22.577, 196.198 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

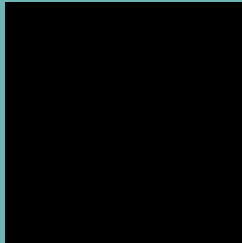
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

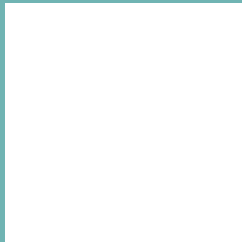
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 69, 22.577, 196.198

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 22.577, 196.198.

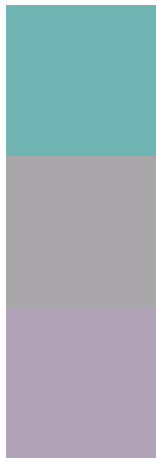


This preview shows how white text looks on a background with the CIELCh color 69, 22.577, 196.198.

# 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**  
69, 22.577, 196.198

**Protanopia**  
69, 2.489, 317.323

**Deuteranopia**  
69, 12.212, 316.173



**Tritanopia**  
69, 21.116, 219.486



# Trichromacy



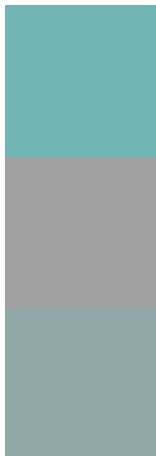
**Original Color**  
69, 22.577, 196.198

**Protanomaly**  
69, 8.369, 206.349

**Deuteranomaly**  
68, 9.030, 251.707

**Tritanomaly**  
69, 21.180, 209.886

# Monochromacy



**Original Color**  
69, 22.577, 196.198

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 8.754, 198.703

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 22.577, 196.198 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(112, 180, 179)` looks like.

```
.text, #text, p{  
    color:rgb(112, 180, 179)  
}
```

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(112, 180, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 180, 179) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 22.577, 196.198 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(112, 180, 179) }
```

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

```
.border{ border-color:rgb(112, 180, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 180, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 180, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 180, 179);  
box-shadow:4px 4px 4px 4px rgb(112, 180,  
179) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 22.577, 196.198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 180, 179) }
```

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

```
.background{ background-color: rgb(112,  
180, 179) }
```

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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