

# Converting Colors

CIELCh(56, 31.431, 331.260)

Have a look what the booklet for  
CIELCh(56, 31.431, 331.260)  
contains.

<b>CIELCh(56, 31.225, 331.484)</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(56, 31.225, 331.484)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AA76A1
RGB	170, 118, 161
RGB Percent	67%, 46%, 63%
CMY	0.3351, 0.5389, 0.3703
CMYK	0.00, 0.31, 0.05, 0.34
HSL	310°, 23%, 56%
HSV	310°, 31%, 66%
XYZ	29.3047, 23.9124, 36.5877
YIQ	138.4500, 17.1890, 24.3970

# Conversions

## Conversions Part 2

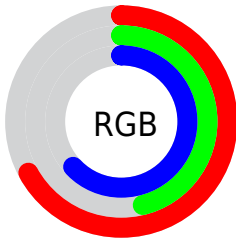
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 118, 161
Decimal	11171489
CIELab	56.00, 27.44, -14.91
CIELCh	56, 31.225, 331.484
Yxy	23.9124, 0.3263, 0.2663
Android (android.graphics.Color)	4289361569 (0xFFAA76A1)
YUV	138.4500, 11.1172, 27.6694
Hunter-Lab	48.9003, 21.3948, -10.1311

# Details

The CIELCh color  $56, 31.225, 331.484$  is a light color, and the websafe version is hex `996699`. A complement of this color would be  $65, 31.125, 147.339$ , and the grayscale version is  $57, 0.007, 296.813$ .

A 20% lighter version of the original color is  $76, 31.160, 331.422$ , and  $36, 30.787, 331.841$  is the 20% darker color. If you saturate the color by 10%, you get  $52, 41.101, 332.135$ , and if you desaturate by 10%, it is  $60, 21.048, 330.845$ .

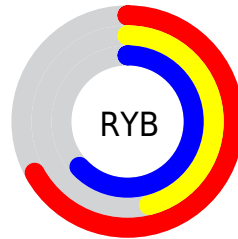
# Distribution



Red (67%)

Green (46%)

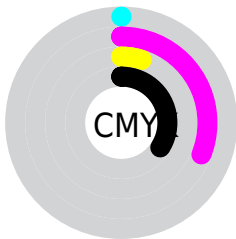
Blue (63%)



Red (67%)

Yellow (46%)

Blue (63%)

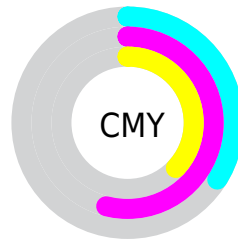


Cyan (0%)

Magenta (31%)

Yellow (5%)

Black (34%)



Cyan (34%)

Magenta (54%)

Yellow (37%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 56, 31.225, 331.484 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 56, 31.225, 331.484 by changing the saturation by 10% instead.




 56, 31.225,  
331.484


 56, 31.225,  
331.484


 100, 31.225,  
331.484


 46, 31.225,  
331.484


 76, 31.225,  
331.484

 36, 31.225,  
331.484

 86, 31.225,  
331.484

 26, 31.225,  
331.484

 96, 31.225,  
331.484

 16, 31.225,  
331.484

 6, 31.225, 331.484

 0, 31.225, 331.484

56, 31.225,  
331.484

56, 31.225,  
331.484

52, 41.101,  
332.135

60, 21.048,  
330.845

48, 50.367,  
332.797

65, 10.809,  
330.215

45, 58.626,  
333.473

69, 0.661, 329.239

43, 65.439,  
334.169

74, 9.295, 149.096

41, 70.402,  
334.900

78, 19.002,  
148.531


39, 73.273,  
335.692

83, 28.432,  
148.002

39, 74.449,  
336.493

88, 37.574,  
147.503

93, 46.432,  
147.031

 93, 46.285,  
147.996

# Harmonies

# Complementary

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



56, 31.225, 331.484



65, 31.125, 147.339

# Rectangle

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



56, 31.225, 331.484



56, 31.225, 21.484



56, 31.225, 151.484



56, 31.225, 201.484

# Sweetspot

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



56, 31.223, 331.484



82, 11.250, 330.121



52, 30.444, 299.390



43, 7.813, 330.210



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



56, 31.223, 331.484



68, 46.264, 331.939



55, 23.038, 356.977



33, 5.704, 330.129



33, 67.435, 336.384



2, 9.943, 331.545



# Inverse Universe

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



56, 31.223, 331.484



68, 46.264, 331.939



65, 21.296, 170.707



33, 5.704, 330.129



33, 67.435, 336.384

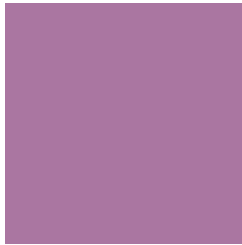


2, 9.943, 331.545



# Previews

## White Background



This preview shows how the CIELCh color 56, 31.225, 331.484 looks on a white 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

# Black Background



This preview shows how the CIELCh color 56, 31.225, 331.484 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

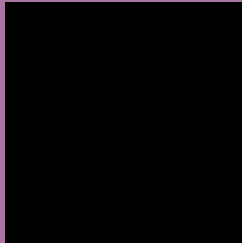
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 56, 31.225, 331.484

## Background



This preview shows how black text looks on a background with the CIELCh color 56, 31.225, 331.484.



This preview shows how white text looks on a background with the CIELCh color 56, 31.225, 331.484.

# 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

56, 31.225, 331.484

### Protanopia

56, 21.848, 285.499

### Deuteranopia

56, 15.629, 298.717





**Tritanopia**  
56, 18.195, 5.261

# Trichromacy



**Original Color**  
56, 31.225, 331.484

**Protanomaly**  
56, 23.605, 305.069

**Deuteranomaly**  
56, 20.707, 315.527

**Tritanomaly**  
56, 21.704, 348.656

# Monochromacy



**Original Color**  
56, 31.225, 331.484

**Achromatopsia**  
57, 0.007, 296.813

**Achromatomaly**  
57, 11.091, 330.083

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 56, 31.225, 331.484 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(170, 118, 161)` looks like.

```
.text, #text, p{  
    color:rgb(170, 118, 161)  
}
```

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(170, 118, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 118, 161) }
```

## Border

The CSS property to change the border of an element to CIELCh 56, 31.225, 331.484 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(170, 118, 161) }
```

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

```
.border{ border-color:rgb(170, 118, 161) }
```

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

Here you see how a box with a 4 pixel rgb(170, 118, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 118, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 118, 161);  
box-shadow:4px 4px 4px 4px rgb(170, 118,  
161) }
```

# Background

The CSS property to change the background color of an element to CIELCh 56, 31.225, 331.484 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 118, 161) }
```

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

```
.background{ background-color: rgb(170,  
118, 161) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor