

# Converting Colors

CIELCh(53, 31.755, 330.069)

Have a look what the booklet for  
CIELCh(53, 31.755, 330.069)  
contains.

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**Color**

**CIELCh(53, 31.692, 330.302)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A16E9A
RGB	161, 110, 154
RGB Percent	63%, 43%, 60%
CMY	0.3688, 0.5688, 0.3963
CMYK	0.00, 0.32, 0.04, 0.37
HSL	308°, 21%, 53%
HSV	308°, 32%, 63%
XYZ	26.0886, 21.0462, 33.2392
YIQ	130.2650, 16.2720, 24.4960

# Conversions

## Conversions Part 2

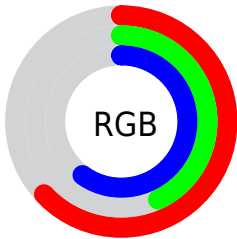
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	161, 110, 154
Decimal	10579610
CIE <sub>Lab</sub>	53.00, 27.53, -15.70
CIE <sub>LCh</sub>	53, 31.692, 330.302
Yxy	21.0462, 0.3246, 0.2619
Android (android.graphics.Color)	4288769690 (0xFFA16E9A)
YUV	130.2650, 11.7014, 26.9546
Hunter-Lab	45.8761, 21.2251, -10.8448

# Details

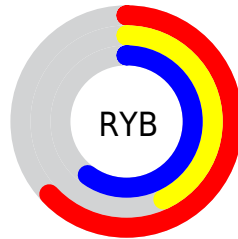
The CIELCh color  $53, 31.692, 330.302$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $62, 31.634, 146.127$ , and the grayscale version is  $54, 0.007, 296.813$ .

A 20% lighter version of the original color is  $73, 31.583, 330.293$ , and  $33, 31.778, 329.875$  is the 20% darker color. If you saturate the color by 10%, you get  $49, 41.342, 330.913$ , and if you desaturate by 10%, it is  $57, 21.718, 329.694$ .

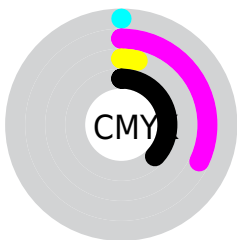
# Distribution



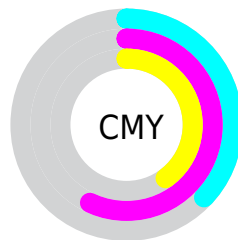
- Red (63%)
- Green (43%)
- Blue (60%)



- Red (63%)
- Yellow (43%)
- Blue (60%)



- Cyan (0%)
- Magenta (32%)
- Yellow (4%)
- Black (37%)




- Cyan (37%)
- Magenta (57%)
- Yellow (40%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 53, 31.692, 330.302 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 53, 31.692, 330.302 by changing the saturation by 10% instead.





 53, 31.692,  
330.302


 53, 31.692,  
330.302


 100, 31.692,  
330.302


 43, 31.692,  
330.302


 73, 31.692,  
330.302

 33, 31.692,  
330.302

 83, 31.692,  
330.302

 23, 31.692,  
330.302

 93, 31.692,  
330.302

 13, 31.692,  
330.302

 3, 31.692, 330.302

 0, 31.692, 330.302

53, 31.692,  
330.302

53, 31.692,  
330.302

49, 41.342,  
330.913

57, 21.718,  
329.694

46, 50.362,  
331.521

61, 11.659,  
329.089

43, 58.368,  
332.124

65, 1.672, 328.381

40, 64.941,  
332.724

70, 8.140, 147.997

39, 69.713,  
333.330

74, 17.715,  
147.441


37, 72.475,  
333.957

79, 27.022,  
146.920

37, 73.655,  
334.497

83, 36.048,  
146.427

88, 44.793,  
145.962

 93, 53.267,  
145.523

# Harmonies

# Complementary

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



53, 31.692, 330.302



62, 31.634, 146.127

# Rectangle

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



53, 31.692, 330.302



53, 31.692, 20.302



53, 31.692, 150.302



53, 31.692, 200.302

# Sweetspot

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



53, 31.690, 330.302



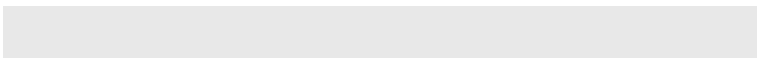
79, 12.340, 328.998



49, 30.165, 298.385



41, 8.408, 329.078



92, 0.011, 296.813



44, 0.006, 296.813





# Same Dimension

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



53, 31.690, 330.302



65, 46.798, 330.731



52, 23.184, 354.839



32, 5.702, 328.942



33, 68.414, 334.436



1, 8.593, 329.655



# Inverse Universe

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



53, 31.690, 330.302



65, 46.798, 330.731



62, 21.599, 168.435



32, 5.702, 328.942



33, 68.414, 334.436

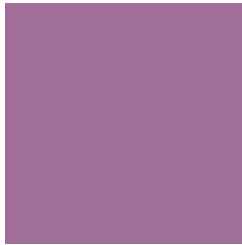


1, 8.593, 329.655



# Previews

## White Background



This preview shows how the CIELCh color 53, 31.692, 330.302 looks on a white background.

## Color Contrast Check

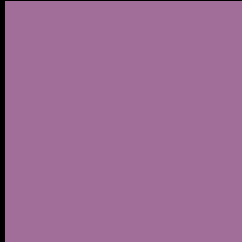
Large Text (above 18pt) WCAG AA ✓ Pass

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 53, 31.692, 330.302 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

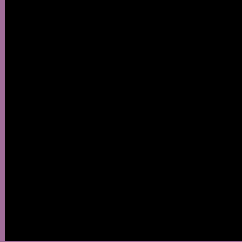
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 53, 31.692, 330.302

## Background



This preview shows how black text looks on a background with the CIELCh color 53, 31.692, 330.302.



This preview shows how white text looks on a background with the CIELCh color 53, 31.692, 330.302.

# 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

53, 31.692, 330.302


### Protanopia

53, 23.258, 285.417

### Deuteranopia

53, 15.706, 296.108





**Tritanopia**  
53, 17.470, 6.340

# Trichromacy



**Original Color**  
53, 31.692, 330.302

**Protanomaly**  
53, 24.256, 303.194

**Deuteranomaly**  
53, 20.622, 313.597

**Tritanomaly**  
53, 21.232, 347.450

# Monochromacy



**Original Color**  
53, 31.692, 330.302

**Achromatopsia**  
54, 0.007, 296.813

**Achromatomaly**  
54, 11.651, 328.313

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 53, 31.692, 330.302 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(161, 110, 154)` looks like.

```
.text, #text, p{  
    color:rgb(161, 110, 154)  
}
```

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(161, 110, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 110, 154) }
```

## Border

The CSS property to change the border of an element to CIELCh 53, 31.692, 330.302 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(161, 110, 154) }
```

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

```
.border{ border-color:rgb(161, 110, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(161, 110, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(161, 110, 154); -webkit-box-shadow:4px 4px 4px 4px rgb(161, 110, 154); box-shadow:4px 4px 4px 4px rgb(161, 110, 154) }
```

# Background

The CSS property to change the background color of an element to CIELCh 53, 31.692, 330.302 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 110, 154) }
```

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

```
.background{ background-color: rgb(161,  
110, 154) }
```

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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