

Converting Colors

CIELCh(50, 31.396, 251.477)

Have a look what the booklet for
CIELCh(50, 31.396, 251.477)
contains.

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Color

CIELCh(50, 31.441, 251.969)

Conversions

Conversions Part 1

Format	Color
Hex	2D7EA9
RGB	45, 126, 169
RGB Percent	18%, 49%, 66%
CMY	0.8222, 0.5050, 0.3363
CMYK	0.73, 0.25, 0.00, 0.34
HSL	201°, 58%, 42%
HSV	201°, 73%, 66%
XYZ	15.7705, 18.4187, 40.3785
YIQ	106.6830, -62.0790, -3.7990

Conversions

Conversions Part 2

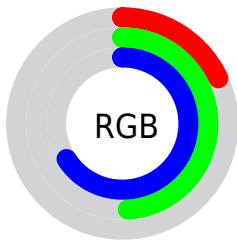
Format	Color
R_{YB}	45, 94, 169
Decimal	2981545
CIE _{Lab}	50.00, -9.73, -29.90
CIE _{LCh}	50, 31.441, 251.969
Yxy	18.4187, 0.2115, 0.2470
Android (android.graphics.Color)	4281171625 (0xFF2D7EA9)
YUV	106.6830, 30.7223, -54.0960
Hunter-Lab	42.9170, -9.5121, -25.7412

Details

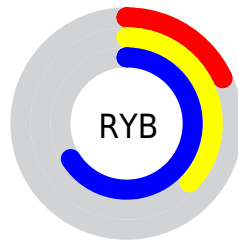
The CIELCh color **50, 31.441, 251.969** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **47, 48.955, 52.583**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 31.223, 251.053**, and **31, 28.888, 261.234** is the 20% darker color. If you saturate the color by 10%, you get **48, 34.365, 256.053**, and if you desaturate by 10%, it is **52, 28.199, 248.521**.

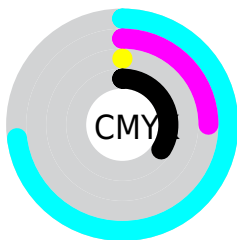
Distribution



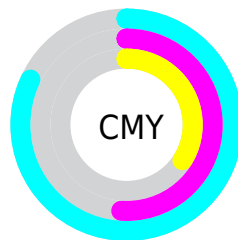
- Red (18%)
- Green (49%)
- Blue (66%)



- Red (18%)
- Yellow (37%)
- Blue (66%)



- Cyan (73%)
- Magenta (25%)
- Yellow (0%)
- Black (34%)





- Cyan (82%)
- Magenta (51%)
- Yellow (34%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 31.441, 251.969 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 50, 31.441, 251.969 by changing the saturation by 10% instead.


 50, 31.441,
251.969


 50, 31.441,
251.969


 100, 31.441,
251.969


 40, 31.441,
251.969


 70, 31.441,
251.969

 30, 31.441,
251.969


 80, 31.441,
251.969


 20, 31.441,
251.969

 90, 31.441,
251.969

 10, 31.441,
251.969

 0, 31.441, 251.969

 50, 31.441,
251.969

 50, 31.441,
251.969

48, 34.365,
256.053

52, 28.199,
248.521

46, 37.078,
260.735

55, 24.591,
245.670

44, 38.927,
264.011

57, 20.611,
243.345

60, 16.284,
241.464

63, 11.652,
239.950

66, 6.767, 238.745

68, 1.676, 237.938

71, 3.574, 56.758

74, 8.944, 56.168

Harmonies

Complementary

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



50, 31.441, 251.969



47, 48.955, 52.583

Rectangle

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



50, 31.441, 251.969



50, 31.441, 301.969



50, 31.441, 71.969



50, 31.441, 121.969

Sweetspot

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



50, 31.440, 251.969



80, 13.659, 239.840



61, 61.396, 147.428



41, 9.113, 240.191



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



50, 31.440, 251.969



60, 43.798, 258.964



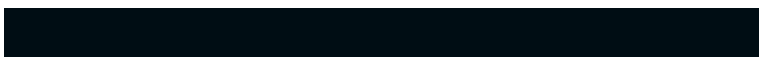
33, 64.415, 296.296



34, 2.905, 238.354



39, 35.012, 263.387



3, 5.511, 246.856

Inverse Universe

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



41, 59.738, 343.233



50, 78.955, 346.053



62, 54.474, 93.979



33, 5.038, 336.872



32, 59.990, 348.029



2, 8.626, 339.799

Previews

White Background



This preview shows how the CIELCh color 50, 31.441, 251.969 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 50, 31.441, 251.969 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

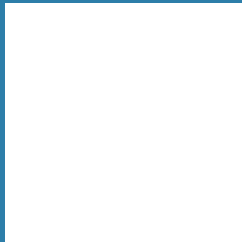
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 31.441, 251.969

Background



This preview shows how black text looks on a background with the CIELCh color 50, 31.441, 251.969.

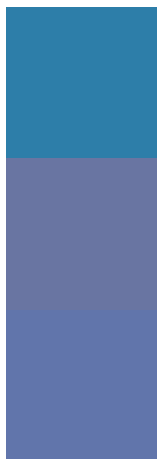


This preview shows how white text looks on a background with the CIELCh color 50, 31.441, 251.969.

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

50, 31.441, 251.969

Protanopia

50, 26.500, 284.874

Deuteranopia

50, 31.949, 282.895



Tritanopia
50, 28.442, 210.024

Trichromacy



Original Color
50, 31.441, 251.969

Protanomaly
49, 28.120, 269.750

Deuteranomaly
49, 31.116, 270.491

Tritanomaly
50, 27.960, 226.377

Monochromacy



Original Color
50, 31.441, 251.969

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 13.707, 242.722

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 31.441, 251.969 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(45, 126, 169)` looks like.

```
.text, #text, p{  
    color:rgb(45, 126, 169)  
}
```

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(45, 126, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 126, 169) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 31.441, 251.969 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(45, 126, 169) }
```

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

```
.border{ border-color:rgb(45, 126, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 126, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 126, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 126, 169);  
box-shadow:4px 4px 4px 4px rgb(45, 126,  
169) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 31.441, 251.969 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 126, 169) }
```

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

```
.background{ background-color: rgb(45, 126,  
169) }
```

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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