

Converting Colors

CIELCh(31, 22.892, 306.373)

Have a look what the booklet for
CIELCh(31, 22.892, 306.373)
contains.

CIELCh(31, 22.941, 306.392)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(31, 22.941, 306.392)

Conversions

Conversions Part 1

Format	Color
Hex	504366
RGB	80, 67, 102
RGB Percent	31%, 26%, 40%
CMY	0.6869, 0.7378, 0.6006
CMYK	0.22, 0.34, 0.00, 0.60
HSL	262°, 21%, 33%
HSV	262°, 34%, 40%
XYZ	7.6839, 6.6515, 13.4078
YIQ	74.8770, -3.4870, 13.6410

Conversions

Conversions Part 2

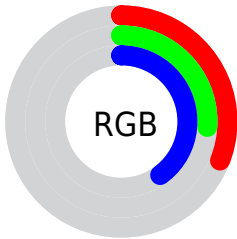
Format	Color
R_{YB}	80, 67, 102
Decimal	5260134
CIE _{Lab}	31.00, 13.61, -18.47
CIE _{LCh}	31, 22.941, 306.392
Yxy	6.6515, 0.2770, 0.2398
Android (android.graphics.Color)	4283450214 (0xFF504366)
YUV	74.8770, 13.3716, 4.4929
Hunter-Lab	25.7905, 8.0477, -12.7700




Details

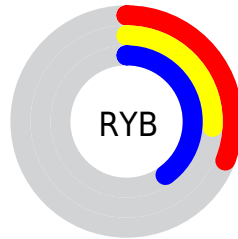
The CIELCh color $[31, 22.941, 306.392]$ is a dark color, and the websafe version is hex 333366 . A complement of this color would be $[41, 21.633, 122.765]$, and the grayscale version is $[32, 0.005, 296.813]$.




A 20% lighter version of the original color is $[51, 22.949, 306.652]$, and $[11, 22.940, 306.077]$ is the 20% darker color. If you saturate the color by 10%, you get $[28, 30.000, 307.072]$, and if you desaturate by 10%, it is $[35, 16.029, 305.757]$.

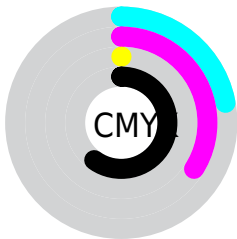
Distribution







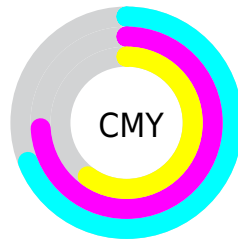
-  Red (31%)
-  Green (26%)
-  Blue (40%)






-  Red (31%)
-  Yellow (26%)
-  Blue (40%)



-  Cyan (22%)
-  Magenta (34%)
-  Yellow (0%)
-  Black (60%)





-  Cyan (69%)
-  Magenta (74%)
-  Yellow (60%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 22.941, 306.392 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 31, 22.941, 306.392 by changing the saturation by 10% instead.


 31, 22.941,
306.392


 31, 22.941,
306.392

 100, 22.941,
306.392


 21, 22.941,
306.392

 51, 22.941,
306.392


 11, 22.941,
306.392


 61, 22.941,
306.392

 1, 22.941, 306.392

 71, 22.941,
306.392

 0, 22.941, 306.392

 81, 22.941,
306.392

 91, 22.941,
306.392

■ 31, 22.941,
306.392

■ 31, 22.941,
306.392

■ 28, 30.000,
307.072

■ 35, 16.029,
305.757

■ 24, 37.131,
307.776

■ 38, 9.305, 305.177

■ 21, 44.185,
308.465

■ 42, 2.783, 304.646

■ 18, 50.908,
309.073

■ 45, 3.535, 124.213

■ 15, 56.906,
309.500

■ 49, 9.653, 123.798

■ 13, 61.880,
309.703

■ 52, 15.579,
123.438

■ 12, 64.885,
309.965

■ 56, 21.322,
123.125

■ 59, 26.891,
122.853

■ 62, 32.297,

Harmonies

Complementary

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



31, 22.941, 306.392



41, 21.633, 122.765

Rectangle

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



31, 22.941, 306.392



31, 22.941, 356.392



31, 22.941, 126.392



31, 22.941, 176.392

Sweetspot

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



31, 22.940, 306.392



51, 8.002, 304.957



37, 11.221, 244.033



25, 5.423, 305.009



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



31, 22.940, 306.392



37, 34.356, 306.921



33, 25.054, 322.262



19, 3.614, 304.885



14, 70.724, 309.818



35, 123.539, 309.202

Inverse Universe

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



33, 20.120, 339.898



41, 29.712, 340.601



40, 24.835, 138.885



20, 3.257, 337.891



24, 49.535, 349.220



53, 84.947, 351.001

Previews

White Background



This preview shows how the CIELCh color 31, 22.941, 306.392 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 ✓ Pass

Black Background



This preview shows how the CIELCh color 31, 22.941, 306.392 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

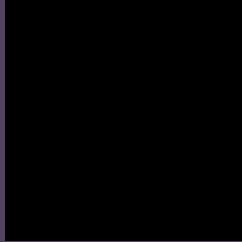
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 22.941, 306.392

Background



This preview shows how black text looks on a background with the CIELCh color 31, 22.941, 306.392.



This preview shows how white text looks on a background with the CIELCh color 31, 22.941, 306.392.

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


31, 22.941, 306.392

Protanopia

31, 21.779, 284.801

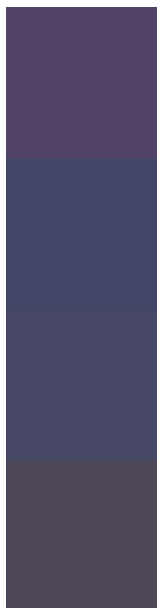
Deuteranopia

31, 18.592, 284.499



Tritanopia
31, 3.644, 319.040

Trichromacy



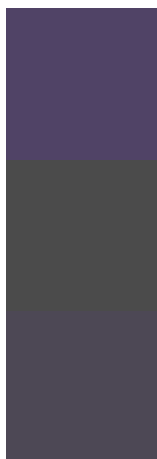
Original Color
31, 22.941, 306.392

Protanomaly
31, 21.676, 292.101

Deuteranomaly
31, 19.779, 293.677

Tritanomaly
31, 10.660, 307.704

Monochromacy



Original Color
31, 22.941, 306.392

Achromatopsia
32, 0.005, 296.813

Achromatomaly
32, 8.563, 305.679

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 22.941, 306.392 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(80, 67, 102)` looks like.

```
.text, #text, p{  
    color:rgb(80, 67, 102)  
}
```

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(80, 67, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 67, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 22.941, 306.392 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(80, 67, 102) }
```

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

```
.border{ border-color:rgb(80, 67, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 67, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 67, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 67, 102);  
box-shadow:4px 4px 4px 4px rgb(80, 67,  
102) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 22.941, 306.392 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 67, 102) }
```

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

```
.background{ background-color: rgb(80, 67,  
102) }
```

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