

Converting Colors

CIELCh(23, 31.116, 311.774)

Have a look what the booklet for
CIELCh(23, 31.116, 311.774)
contains.

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Color

CIELCh(23, 31.049, 311.751)

Conversions

Conversions Part 1

Format	Color
Hex	442D5A
RGB	68, 45, 90
RGB Percent	27%, 18%, 35%
CMY	0.7347, 0.8248, 0.6485
CMYK	0.25, 0.50, 0.00, 0.65
HSL	271°, 33%, 26%
HSV	271°, 50%, 35%
XYZ	5.1155, 3.8003, 10.0566
YIQ	57.0070, -0.7370, 18.8710

Conversions

Conversions Part 2

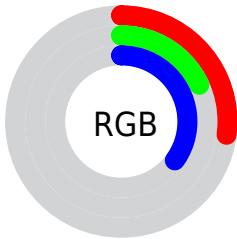
Format	Color
R_{YB}	68, 45, 90
Decimal	4468058
CIE _{Lab}	23.00, 20.68, -23.16
CIE _{LCh}	23, 31.049, 311.751
Yxy	3.8003, 0.2696, 0.2003
Android (android.graphics.Color)	4282658138 (0xFF442D5A)
YUV	57.0070, 16.2655, 9.6409
Hunter-Lab	19.4944, 12.7247, -16.9400

Details

The CIELCh color **23, 31.049, 311.751** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **35, 29.066, 127.301**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 31.057, 311.740**, and **4, 30.077, 311.465** is the 20% darker color. If you saturate the color by 10%, you get **20, 37.298, 312.207**, and if you desaturate by 10%, it is **26, 24.699, 311.263**.

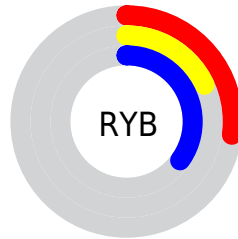
Distribution



Red (27%)

Green (18%)

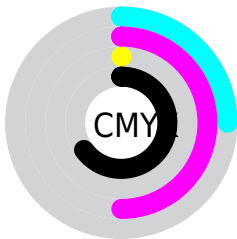
Blue (35%)



Red (27%)

Yellow (18%)

Blue (35%)

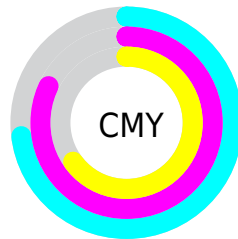


Cyan (25%)

Magenta (50%)

Yellow (0%)

Black (65%)



Cyan (73%)


Magenta (82%)


Yellow (65%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 31.049, 311.751 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 23, 31.049, 311.751 by changing the saturation by 10% instead.

 23, 31.049,
311.751


 23, 31.049,
311.751

 100, 31.049,
311.751


 13, 31.049,
311.751


 43, 31.049,
311.751


 3, 31.049, 311.751

 53, 31.049,
311.751

 0, 31.049, 311.751

 63, 31.049,
311.751

 73, 31.049,
311.751

 83, 31.049,
311.751

 93, 31.049,

311.751

■ 23, 31.049,
311.751

■ 23, 31.049,
311.751

■ 20, 37.298,
312.207

■ 26, 24.699,
311.263

■ 18, 43.257,
312.583

■ 29, 18.372,
310.773

■ 15, 48.650,
312.815

■ 32, 12.139,
310.300

■ 13, 53.143,
312.826

■ 35, 6.042, 309.852

■ 11, 57.627,
312.969

■ 38, 0.100, 308.775

■ 41, 5.677, 129.097

■ 44, 11.288,
128.757

■ 47, 16.737,
128.458

■ 50, 22.029,
128.192

Harmonies

Complementary

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



23, 31.049, 311.751



35, 29.066, 127.301

Rectangle

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



23, 31.049, 311.751



23, 31.049, 1.751



23, 31.049, 131.751



23, 31.049, 181.751

Sweetspot

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



23, 31.048, 311.751



44, 11.206, 310.088



28, 16.197, 263.889



21, 7.581, 310.146



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



23, 31.048, 311.751



27, 46.408, 312.283



26, 33.448, 326.870



17, 3.391, 309.795



15, 66.531, 312.685



38, 118.035, 311.970

Inverse Universe

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



25, 24.097, 349.139



30, 35.306, 350.877



34, 33.580, 140.759



17, 2.704, 344.873



22, 45.614, 0.803



51, 80.024, 3.814

Previews

White Background



This preview shows how the CIELCh color 23, 31.049, 311.751 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 CIE LCh color 23, 31.049, 311.751 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

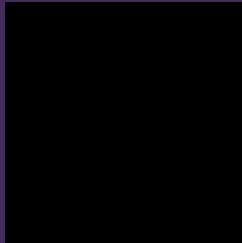
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 31.049, 311.751

Background



This preview shows how black text looks on a background with the CIELCh color 23, 31.049, 311.751.



This preview shows how white text looks on a background with the CIELCh color 23, 31.049, 311.751.

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
23, 31.049, 311.751

Protanopia
23, 29.493, 284.841

Deuteranopia
23, 21.808, 278.984



Tritanopia
23, 4.940, 347.848

Trichromacy



Original Color
23, 31.049, 311.751

Protanomaly
23, 29.307, 293.063

Deuteranomaly
23, 24.719, 292.967

Tritanomaly
23, 14.078, 317.934

Monochromacy



Original Color
23, 31.049, 311.751

Achromatopsia
24, 0.004, 296.813

Achromatomaly
24, 11.241, 310.030

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 31.049, 311.751 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(68, 45, 90)` looks like.

```
.text, #text, p{  
    color:rgb(68, 45, 90)  
}
```

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(68, 45, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 45, 90) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 31.049, 311.751 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(68, 45, 90) }
```

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

```
.border{ border-color:rgb(68, 45, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 45, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 45, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 45, 90);  
box-shadow:4px 4px 4px 4px rgb(68, 45, 90)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 31.049, 311.751 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 45, 90) }
```

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

```
.background{ background-color: rgb(68, 45,  
90) }
```

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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