

Converting Colors

CIELCh(23, 50.022, 316.617)

Have a look what the booklet for
CIELCh(23, 50.022, 316.617)
contains.

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Color

CIELCh(23, 49.917, 316.396)

Conversions

Conversions Part 1

Format	Color
Hex	50206B
RGB	80, 32, 107
RGB Percent	31%, 13%, 42%
CMY	0.6863, 0.8745, 0.5804
CMYK	0.25, 0.70, 0.00, 0.58
HSL	278°, 54%, 27%
HSV	278°, 70%, 42%
XYZ	6.4791, 3.8003, 14.3027
YIQ	54.9020, 4.5330, 33.5010

Conversions

Conversions Part 2

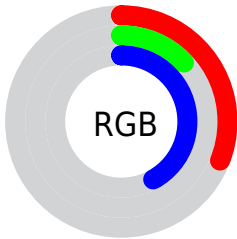
Format	Color
R_{YB}	80, 32, 107
Decimal	5251179
CIE _{Lab}	23.00, 36.15, -34.43
CIE _{LCh}	23, 49.917, 316.396
Yxy	3.8003, 0.2636, 0.1546
Android (android.graphics.Color)	4283441259 (0xFF50206B)
YUV	54.9020, 25.6843, 22.0109
Hunter-Lab	19.4944, 25.2101, -29.8540

Details

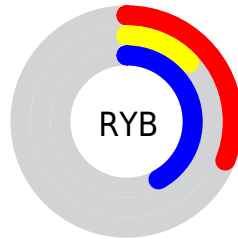
The CIELCh color $[23, 49.917, 316.396]$ is a dark color, and the websafe version is hex $\#660066$. A complement of this color would be $[40, 47.050, 130.805]$, and the grayscale version is $[23, 0.004, 296.813]$.

A 20% lighter version of the original color is $[43, 50.035, 316.465]$, and $[6, 41.838, 314.260]$ is the 20% darker color. If you saturate the color by 10%, you get $[21, 55.544, 316.457]$, and if you desaturate by 10%, it is $[26, 43.423, 316.171]$.

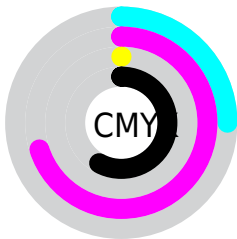
Distribution



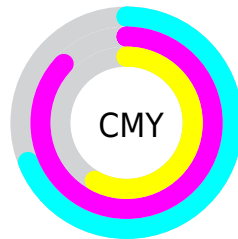
- Red (31%)
- Green (13%)
- Blue (42%)



- Red (31%)
- Yellow (13%)
- Blue (42%)



- Cyan (25%)
- Magenta (70%)
- Yellow (0%)
- Black (58%)





- Cyan (69%)
- Magenta (87%)
- Yellow (58%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 49.917, 316.396 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, 49.917, 316.396 by changing the saturation by 10% instead.

 23, 49.917,
316.396

 23, 49.917,
316.396

 100, 49.917,
316.396

 13, 49.917,
316.396


 43, 49.917,
316.396

 3, 49.917, 316.396

 53, 49.917,
316.396

 0, 49.917, 316.396

 63, 49.917,
316.396

 73, 49.917,
316.396

 83, 49.917,
316.396

 93, 49.917,

316.396

■ 23, 49.917,
316.396

■ 23, 49.917,
316.396

■ 21, 55.544,
316.457

■ 26, 43.423,
316.171

■ 19, 59.937,
316.285

■ 29, 36.399,
315.839

■ 17, 63.719,
316.059

■ 32, 29.105,
315.447

■ 35, 21.727,
315.028

■ 38, 14.383,
314.603

■ 42, 7.150, 314.185

■ 45, 0.070, 312.328

■ 49, 6.833, 133.460

■ 52, 13.550,
133.118

Harmonies

Complementary

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



23, 49.917, 316.396



40, 47.050, 130.805

Rectangle

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



23, 49.917, 316.396



23, 49.917, 6.396



23, 49.917, 136.396



23, 49.917, 186.396

Sweetspot

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



23, 49.916, 316.396



49, 18.798, 314.667



25, 31.569, 282.514



24, 12.847, 314.753



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



23, 49.916, 316.396



27, 71.000, 316.380



27, 46.516, 332.312



20, 3.979, 314.138



19, 68.067, 315.954



44, 117.609, 315.357

Inverse Universe

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



25, 35.720, 2.057



31, 50.206, 7.186



40, 47.624, 141.853



21, 2.843, 352.658



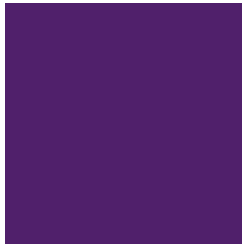
24, 47.929, 13.128



52, 83.328, 16.596

Previews

White Background



This preview shows how the CIE LCh color 23, 49.917, 316.396 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, 49.917, 316.396 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

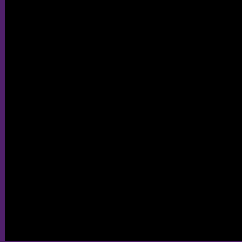
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 49.917, 316.396

Background



This preview shows how black text looks on a background with the CIELCh color 23, 49.917, 316.396.



This preview shows how white text looks on a background with the CIELCh color 23, 49.917, 316.396.

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, 49.917, 316.396

Protanopia

23, 40.211, 284.484

Deuteranopia

23, 30.566, 273.914



Tritanopia
23, 10.298, 6.795

Trichromacy



Original Color
23, 49.917, 316.396

Protanomaly
21, 43.459, 293.746

Deuteranomaly
21, 36.954, 290.325

Tritanomaly
23, 23.618, 327.371

Monochromacy



Original Color
23, 49.917, 316.396

Achromatopsia
23, 0.004, 296.813

Achromatomaly
22, 19.438, 314.889

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 49.917, 316.396 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, 32, 107)` looks like.

```
.text, #text, p{  
    color:rgb(80, 32, 107)  
}
```

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, 32, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 32, 107) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 49.917, 316.396 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, 32, 107) }
```

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

```
.border{ border-color:rgb(80, 32, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 32, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 32, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 32, 107);  
box-shadow:4px 4px 4px 4px rgb(80, 32,  
107) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 49.917, 316.396 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 32, 107) }
```

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

```
.background{ background-color: rgb(80, 32,  
107) }
```

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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