

Converting Colors

CIELCh(23, 18.979, 293.029)

Have a look what the booklet for
CIELCh(23, 18.979, 293.029)
contains.

CIELCh(23, 19.381, 293.188)	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(23, 19.381, 293.188)

Conversions

Conversions Part 1

Format	Color
Hex	333451
RGB	51, 52, 81
RGB Percent	20%, 20%, 32%
CMY	0.7986, 0.7947, 0.6809
CMYK	0.37, 0.36, 0.00, 0.68
HSL	238°, 23%, 26%
HSV	238°, 37%, 32%
XYZ	4.1267, 3.8003, 8.3752
YIQ	55.0070, -9.9050, 8.8070

Conversions

Conversions Part 2

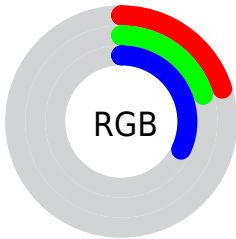
Format	Color
R_{YB}	51, 52, 81
Decimal	3355729
CIE Lab	23.00, 7.63, -17.82
CIE LCh	23, 19.381, 293.188
Yxy	3.8003, 0.2531, 0.2331
Android (android.graphics.Color)	4281545809 (0xFF333451)
YUV	55.0070, 12.8145, -3.5141
Hunter-Lab	19.4944, 3.6707, -11.8262

Details

The CIELCh color **23, 19.381, 293.188** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **34, 17.929, 105.501**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 19.320, 294.013**, and **3, 19.239, 292.984** is the 20% darker color. If you saturate the color by 10%, you get **20, 25.111, 294.819**, and if you desaturate by 10%, it is **26, 13.863, 291.768**.

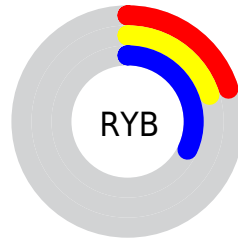
Distribution



Red (20%)

Green (20%)

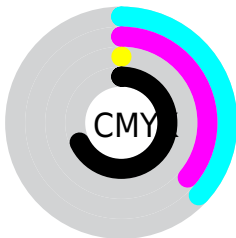
Blue (32%)



Red (20%)

Yellow (20%)

Blue (32%)

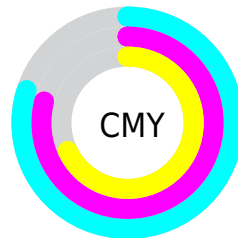


Cyan (37%)

Magenta (36%)

Yellow (0%)

Black (68%)



Cyan (80%)

Magenta (79%)

Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 19.381, 293.188 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, 19.381, 293.188 by changing the saturation by 10% instead.

■ 23, 19.381,
293.188

■ 23, 19.381,
293.188

■ 100, 19.381,
293.188

■ 13, 19.381,
293.188

■ 43, 19.381,
293.188

■ 3, 19.381, 293.188

■ 53, 19.381,
293.188

■ 0, 19.381, 293.188

■ 63, 19.381,
293.188

■ 73, 19.381,
293.188

■ 83, 19.381,
293.188

■ 93, 19.381,

293.188

■ 23, 19.381,
293.188

■ 23, 19.381,
293.188

■ 20, 25.111,
294.819

■ 26, 13.863,
291.768

■ 17, 31.046,
296.664

■ 29, 8.549, 290.543

■ 14, 37.134,
298.691

■ 32, 3.426, 289.493

■ 36, 1.518, 108.543

■ 11, 43.221,
300.812

■ 39, 6.298, 107.776

■ 9, 48.973, 302.857

■ 42, 10.924,
107.096

■ 7, 53.998, 304.395

■ 45, 15.405,
106.503

■ 6, 55.500, 304.741

■ 48, 19.750,
105.985

■ 51, 23.967,
105.530

Harmonies

Complementary

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



23, 19.381, 293.188



34, 17.929, 105.501

Rectangle

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



23, 19.381, 293.188



23, 19.381, 343.188



23, 19.381, 113.188



23, 19.381, 163.188

Sweetspot

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



23, 19.380, 293.188



40, 6.786, 289.943



32, 11.734, 194.632



20, 4.602, 290.017



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



23, 19.380, 293.188



27, 28.912, 294.578



24, 20.737, 309.627



15, 2.797, 289.674



10, 67.572, 305.518



29, 123.259, 305.990

Inverse Universe

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



25, 14.588, 19.885



30, 21.945, 21.109



33, 19.703, 126.296



15, 2.020, 17.140



20, 50.868, 34.982



48, 96.053, 38.997

Previews

White Background



This preview shows how the CIE LCh color 23, 19.381, 293.188 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 23, 19.381, 293.188 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, 19.381, 293.188

Background



This preview shows how black text looks on a background with the CIELCh color 23, 19.381, 293.188.

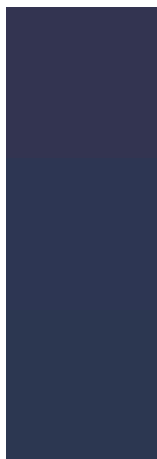


This preview shows how white text looks on a background with the CIELCh color 23, 19.381, 293.188.

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, 19.381, 293.188

Protanopia

23, 19.466, 284.795

Deuteranopia

23, 17.596, 280.819



Tritanopia
23, 5.011, 240.869

Trichromacy



Original Color
23, 19.381, 293.188

Protanomaly
23, 19.409, 287.868

Deuteranomaly
23, 18.086, 285.850

Tritanomaly
23, 8.941, 276.122

Monochromacy



Original Color
23, 19.381, 293.188

Achromatopsia
23, 0.004, 296.813

Achromatomaly
23, 7.350, 291.781

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 23, 19.381, 293.188 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(51, 52, 81)` looks like.

```
.text, #text, p{  
    color:rgb(51, 52, 81)  
}
```

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(51, 52, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 52, 81) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 19.381, 293.188 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(51, 52, 81) }
```

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

```
.border{ border-color:rgb(51, 52, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 52, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 52, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 52, 81);  
box-shadow:4px 4px 4px 4px rgb(51, 52, 81)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 19.381, 293.188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 52, 81) }
```

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

```
.background{ background-color: rgb(51, 52,  
81) }
```

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