

Converting Colors

CIELCh(23, 33.756, 281.053)

Have a look what the booklet for
CIELCh(23, 33.756, 281.053)
contains.

CIELCh(23, 33.838, 280.976)	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>	26

Color

CIELCh(23, 33.838, 280.976)

Conversions

Conversions Part 1

Format	Color
Hex	0C3769
RGB	12, 55, 105
RGB Percent	5%, 22%, 41%
CMY	0.9514, 0.7854, 0.5895
CMYK	0.88, 0.48, 0.00, 0.59
HSL	212°, 79%, 23%
HSV	212°, 88%, 41%
XYZ	4.0435, 3.8003, 13.7992
YIQ	47.8430, -41.6780, 6.4340

Conversions

Conversions Part 2

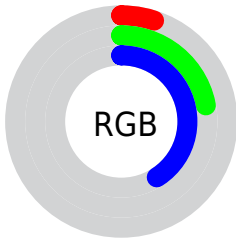
Format	Color
R_{YB}	12, 41, 105
Decimal	800617
CIE Lab	23.00, 6.44, -33.22
CIE LCh	23, 33.838, 280.976
Yxy	3.8003, 0.1868, 0.1756
Android (android.graphics.Color)	4278990697 (0xFF0C3769)
YUV	47.8430, 28.1784, -31.4343
Hunter-Lab	19.4944, 2.9091, -28.3227

Details

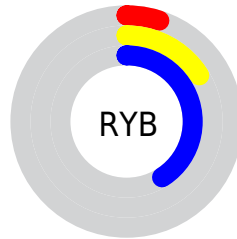
The CIELCh color **23, 33.838, 280.976** is a dark color, and the websafe version is hex **003366**. A complement of this color would be **31, 38.514, 68.031**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 34.168, 281.341**, and **5, 33.405, 295.403** is the 20% darker color. If you saturate the color by 10%, you get **21, 37.814, 284.754**, and if you desaturate by 10%, it is **25, 29.985, 277.178**.

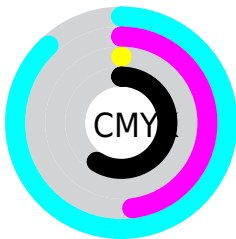
Distribution



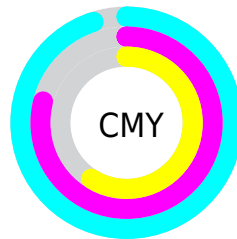
- Red (5%)
- Green (22%)
- Blue (41%)



- Red (5%)
- Yellow (16%)
- Blue (41%)



- Cyan (88%)
- Magenta (48%)
- Yellow (0%)
- Black (59%)



- Cyan (95%)
- Magenta (79%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 33.838, 280.976 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, 33.838, 280.976 by changing the saturation by 10% instead.

■ 23, 33.838,
280.976

■ 23, 33.838,
280.976

■ 100, 33.838,
280.976

■ 13, 33.838,
280.976

■ 43, 33.838,
280.976

■ 3, 33.838, 280.976

■ 53, 33.838,
280.976

■ 0, 33.838, 280.976

■ 63, 33.838,
280.976

■ 73, 33.838,
280.976

■ 83, 33.838,
280.976

■ 93, 33.838,

280.976

■ 23, 33.838,
280.976

■ 23, 33.838,
280.976

■ 21, 37.814,
284.754

■ 25, 29.985,
277.178

■ 21, 38.568,
285.383

■ 27, 26.186,
273.732

■ 30, 22.403,
270.690

■ 32, 18.609,
268.051

■ 35, 14.790,
265.787

■ 37, 10.942,
263.855

■ 40, 7.070, 262.212

■ 42, 3.182, 260.832

■ 45, 0.713, 79.256

Harmonies

Complementary

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



23, 33.838, 280.976



31, 38.514, 68.031

Rectangle

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



23, 33.838, 280.976



23, 33.838, 330.976



23, 33.838, 100.976



23, 33.838, 150.976

Sweetspot

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



23, 33.838, 280.977



48, 12.466, 263.601



39, 40.052, 154.435



24, 8.512, 264.044



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



23, 33.838, 280.977



27, 47.603, 286.672



12, 62.447, 304.660



21, 2.233, 260.935



23, 42.364, 285.997



50, 77.369, 288.670

Inverse Universe

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



22, 41.576, 359.461



28, 52.709, 4.652



43, 47.401, 105.091



21, 3.020, 346.616



24, 47.628, 3.936



52, 81.853, 6.897

Previews

White Background



This preview shows how the CIE LCh color 23, 33.838, 280.976 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, 33.838, 280.976 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

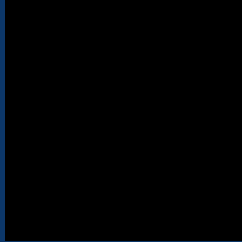
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 33.838, 280.976

Background



This preview shows how black text looks on a background with the CIELCh color 23, 33.838, 280.976.



This preview shows how white text looks on a background with the CIELCh color 23, 33.838, 280.976.

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, 33.860, 280.801

Protanopia

23, 33.508, 285.725

Tritanopia

23, 17.506, 205.484

Trichromacy



Original Color
23, 33.860, 280.801

Protanomaly
23, 33.641, 283.450

Tritanomaly
23, 18.759, 243.723

Monochromacy



Original Color
23, 33.860, 280.801

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 13.788, 269.381

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 33.838, 280.976 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(12, 55, 105)` looks like.

```
.text, #text, p{  
    color:rgb(12, 55, 105)  
}
```

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(12, 55, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 55, 105) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 33.838, 280.976 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(12, 55, 105) }
```

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

```
.border{ border-color:rgb(12, 55, 105) }
```

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

Here you see how a box with a 4 pixel rgb(12, 55, 105) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 55, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 55, 105);  
box-shadow:4px 4px 4px 4px rgb(12, 55,  
105) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 33.838, 280.976 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 55, 105) }
```

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

```
.background{ background-color: rgb(12, 55,  
105) }
```

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