

Converting Colors

CIELCh(23, 21.771, 287.458)

Have a look what the booklet for
CIELCh(23, 21.771, 287.458)
contains.

CIELCh(23, 22.080, 287.610)	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, 22.080, 287.610)

Conversions

Conversions Part 1

Format	Color
Hex	2D3556
RGB	45, 53, 86
RGB Percent	18%, 21%, 34%
CMY	0.8228, 0.7914, 0.6620
CMYK	0.48, 0.38, 0.00, 0.66
HSL	228°, 31%, 26%
HSV	228°, 48%, 34%
XYZ	4.0600, 3.8003, 9.3660
YIQ	54.3700, -15.3610, 8.5670

Conversions

Conversions Part 2

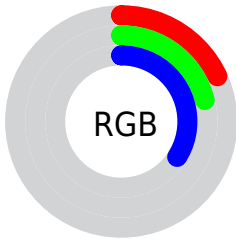
Format	Color
R_{YB}	45, 52, 86
Decimal	2962774
CIE Lab	23.00, 6.68, -21.05
CIE LCh	23, 22.080, 287.610
Yxy	3.8003, 0.2357, 0.2206
Android (android.graphics.Color)	4281152854 (0xFF2D3556)
YUV	54.3700, 15.5936, -8.2175
Hunter-Lab	19.4944, 3.0604, -14.8396

Details

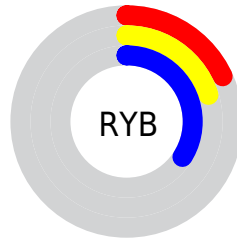
The CIELCh color **23, 22.080, 287.610** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **33, 20.792, 95.570**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 22.330, 287.961**, and **3, 22.275, 288.200** is the 20% darker color. If you saturate the color by 10%, you get **20, 27.144, 289.731**, and if you desaturate by 10%, it is **26, 17.177, 285.753**.

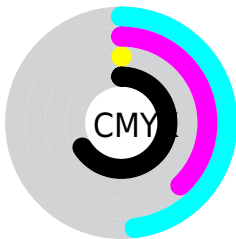
Distribution



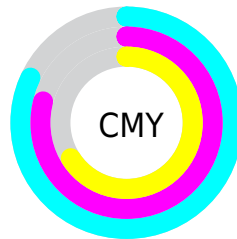
- Red (18%)
- Green (21%)
- Blue (34%)



- Red (18%)
- Yellow (20%)
- Blue (34%)



- Cyan (48%)
- Magenta (38%)
- Yellow (0%)
- Black (66%)



- Cyan (82%)
- Magenta (79%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 22.080, 287.610 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, 22.080, 287.610 by changing the saturation by 10% instead.

■ 23, 22.080,
287.610

■ 23, 22.080,
287.610

■ 100, 22.080,
287.610

■ 13, 22.080,
287.610

■ 43, 22.080,
287.610

■ 3, 22.080, 287.610

■ 53, 22.080,
287.610

■ 0, 22.080, 287.610

■ 63, 22.080,
287.610

■ 73, 22.080,
287.610

■ 83, 22.080,
287.610

■ 93, 22.080,

287.610

■ 23, 22.080,
287.610

■ 23, 22.080,
287.610

■ 20, 27.144,
289.731

■ 26, 17.177,
285.753

■ 17, 32.373,
292.113

■ 29, 12.425,
284.141

■ 15, 37.743,
294.717

■ 32, 7.810, 282.746

■ 34, 3.322, 281.549

■ 12, 43.166,
297.445

■ 37, 1.047, 100.391

■ 10, 48.487,
299.902

■ 40, 5.304, 99.537

■ 10, 49.748,
300.405

■ 43, 9.455, 98.739

■ 46, 13.503, 98.033

■ 49, 17.455, 97.406

Harmonies

Complementary

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



23, 22.080, 287.610



33, 20.792, 95.570

Rectangle

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



23, 22.080, 287.610



23, 22.080, 337.610



23, 22.080, 107.610



23, 22.080, 157.610

Sweetspot

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



23, 22.079, 287.610



42, 7.704, 282.355



34, 16.676, 179.007



20, 5.270, 282.522



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



23, 22.079, 287.610



27, 33.477, 290.036



22, 27.971, 305.014



16, 2.472, 281.684



13, 59.439, 301.238



34, 111.906, 302.987

Inverse Universe

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



24, 20.109, 9.277



29, 30.227, 11.552



35, 25.475, 119.303



16, 2.198, 4.313



21, 48.032, 26.795



49, 88.261, 30.735

Previews

White Background



This preview shows how the CIE LCh color 23, 22.080, 287.610 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, 22.080, 287.610 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

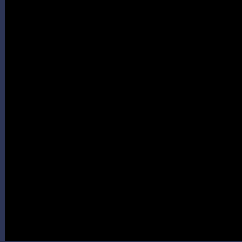
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 22.080, 287.610

Background



This preview shows how black text looks on a background with the CIELCh color 23, 22.080, 287.610.

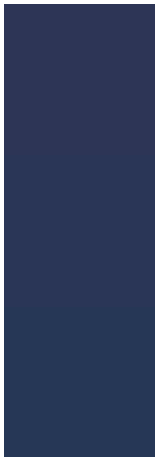


This preview shows how white text looks on a background with the CIELCh color 23, 22.080, 287.610.

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

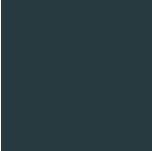
23, 22.080, 287.610

Protanopia

23, 22.174, 284.258

Deuteranopia

23, 21.123, 279.004



Tritanopia
23, 8.568, 221.234

Trichromacy



Original Color
23, 22.080, 287.610

Protanomaly
23, 22.131, 285.051

Deuteranomaly
23, 21.582, 282.919

Tritanomaly
23, 11.324, 261.761

Monochromacy



Original Color
23, 22.080, 287.610

Achromatopsia
23, 0.004, 296.813

Achromatomaly
23, 8.089, 283.009

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 22.080, 287.610 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(45, 53, 86)` looks like.

```
.text, #text, p{  
    color:rgb(45, 53, 86)  
}
```

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(45, 53, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 53, 86) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 22.080, 287.610 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(45, 53, 86) }
```

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

```
.border{ border-color:rgb(45, 53, 86) }
```

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

Here you see how a box with a 4 pixel rgb(45, 53, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 53, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 53, 86);  
box-shadow:4px 4px 4px 4px rgb(45, 53, 86)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 22.080, 287.610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 53, 86) }
```

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

```
.background{ background-color: rgb(45, 53,  
86) }
```

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