

Converting Colors

CIELCh(23, 2.339, 88.046)

Have a look what the booklet for
CIELCh(23, 2.339, 88.046) contains.

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Color

CIELCh(23, 2.813, 89.975)

Conversions

Conversions Part 1

Format	Color
Hex	393733
RGB	57, 55, 51
RGB Percent	22%, 22%, 20%
CMY	0.7777, 0.7855, 0.8012
CMYK	0.00, 0.04, 0.11, 0.78
HSL	40°, 6%, 21%
HSV	40°, 11%, 22%
XYZ	3.6122, 3.8003, 3.6400
YIQ	55.1420, 2.4760, -0.8200

Conversions

Conversions Part 2

Format	Color
R_YB	54, 57, 51
Decimal	3749683
CIE Lab	23.00, 0.00, 2.81
CIE LCh	23, 2.813, 89.975
Yxy	3.8003, 0.3268, 0.3438
Android (android.graphics.Color)	4281939763 (0xFF393733)
YUV	55.1420, -2.0420, 1.6295
Hunter-Lab	19.4944, -1.0405, 2.5754

Details

The CIELCh color **23, 2.813, 89.975** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **22, 2.814, 272.356**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 3.102, 93.947**, and **3, 2.598, 88.621** is the 20% darker color. If you saturate the color by 10%, you get **22, 5.528, 88.917**, and if you desaturate by 10%, it is **24, 0.148, 90.415**.

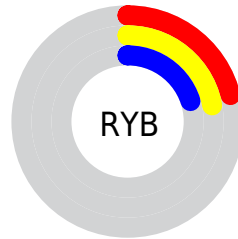
Distribution



Red (22%)

Green (22%)

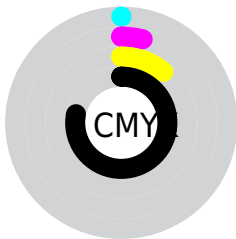
Blue (20%)



Red (21%)

Yellow (22%)

Blue (20%)



Cyan (0%)

Magenta (4%)

Yellow (11%)

Black (78%)



Cyan (78%)

Magenta (79%)

Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 2.813, 89.975 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, 2.813, 89.975 by changing the saturation by 10% instead.

■ 23, 2.813, 89.975 ■ 23, 2.813, 89.975

■ 100, 2.813, 89.975 ■ 13, 2.813, 89.975

■ 43, 2.813, 89.975 ■ 3, 2.813, 89.975

■ 53, 2.813, 89.975 ■ 0, 2.813, 89.975

■ 63, 2.813, 89.975

■ 73, 2.813, 89.975

■ 83, 2.813, 89.975

■ 93, 2.813, 89.975

■ 23, 2.813, 89.975 ■ 23, 2.813, 89.975

■ 22, 5.528, 88.917 ■ 24, 0.148, 90.415

■ 21, 8.288, 87.800	■ 25, 2.469, 272.150
■ 21, 11.089, 86.652	■ 25, 5.040, 273.116
■ 20, 13.915, 85.473	■ 26, 7.568, 274.057
■ 19, 16.740, 84.262	■ 27, 10.054, 274.963
■ 19, 19.487, 82.998	■ 28, 12.502, 275.831
■ 18, 21.631, 81.486	■ 29, 14.915, 276.661
■ 17, 23.292, 79.836	■ 30, 17.295, 277.453
■ 17, 24.856, 78.478	■ 30, 19.644, 278.207

Harmonies

Complementary

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



23, 2.813, 89.975



22, 2.814, 272.356

Rectangle

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



23, 2.813, 89.975



23, 2.813, 139.975



23, 2.813, 269.975



23, 2.813, 319.975

Sweetspot

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



23, 2.813, 89.992



31, 0.987, 90.697



22, 3.110, 354.479



15, 0.756, 90.661



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



23, 2.813, 89.992



30, 4.332, 89.670



24, 3.997, 116.058



10, 1.457, 90.224



28, 38.993, 77.692



66, 73.638, 75.314

Inverse Universe

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



22, 2.814, 272.356



29, 4.327, 272.719



21, 4.079, 297.389



9, 1.459, 272.100



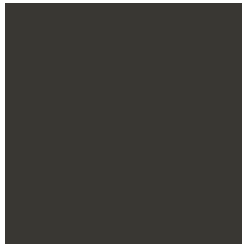
14, 43.095, 293.934



38, 88.358, 297.027

Previews

White Background



This preview shows how the CIELCh color 23, 2.813, 89.975 looks on a white background.

Color Contrast Check

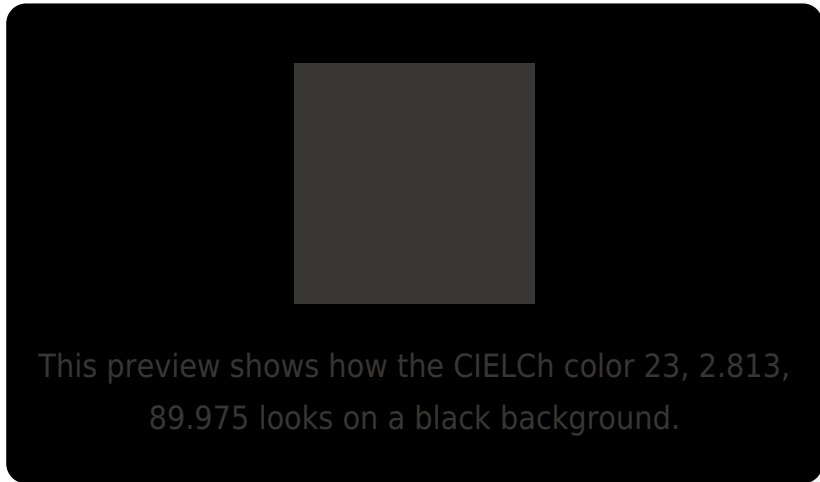
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

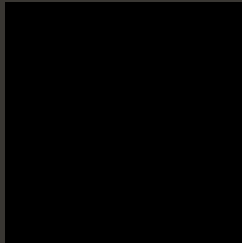
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 2.813, 89.975

Background



This preview shows how black text looks on a background with the CIELCh color 23, 2.813, 89.975.

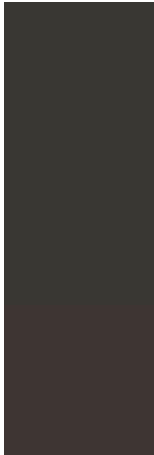


This preview shows how white text looks on a background with the CIELCh color 23, 2.813, 89.975.

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, 2.813, 89.975

Protanopia

23, 2.813, 89.975

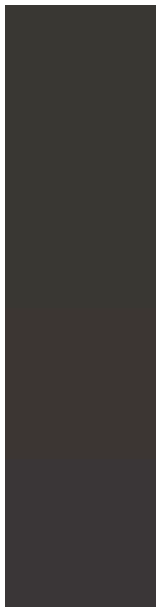
Deuteranopia

23, 4.505, 37.226



Tritanopia
23, 3.245, 324.732

Trichromacy



Original Color

23, 2.813, 89.975

Protanomaly

23, 2.813, 89.975

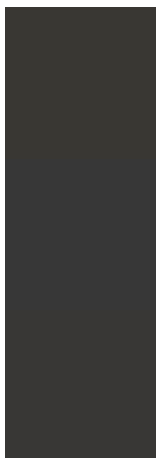
Deuteranomaly

23, 3.480, 54.627

Tritanomaly

23, 1.971, 359.964

Monochromacy



Original Color

23, 2.813, 89.975

Achromatopsia

23, 0.004, 296.813

Achromatomaly

23, 1.402, 90.494

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 2.813, 89.975 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(57, 55, 51)` looks like.

```
.text, #text, p{  
    color:rgb(57, 55, 51)  
}
```

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(57, 55, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 55, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 2.813, 89.975 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(57, 55, 51) }
```

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

```
.border{ border-color:rgb(57, 55, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(57, 55, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 55, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 55, 51);  
box-shadow:4px 4px 4px 4px rgb(57, 55, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 2.813, 89.975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 55, 51) }
```

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

```
.background{ background-color: rgb(57, 55,  
51) }
```

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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