

Converting Colors

CIELCh(22, 21.407, 216.330)

Have a look what the booklet for
CIELCh(22, 21.407, 216.330)
contains.

CIELCh(23, 17.389, 222.340)	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, 17.389, 222.340)

Conversions

Conversions Part 1

Format	Color
Hex	013D48
RGB	1, 61, 72
RGB Percent	0%, 24%, 28%
CMY	0.9950, 0.7612, 0.7180
CMYK	0.98, 0.15, 0.00, 0.72
HSL	189°, 97%, 14%
HSV	189°, 98%, 28%
XYZ	2.8453, 3.8003, 6.6986
YIQ	44.3140, -39.2910, -9.2990

Conversions

Conversions Part 2

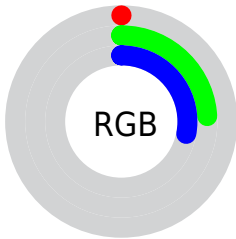
Format	Color
R_{YB}	1, 34, 72
Decimal	81224
CIE _{Lab}	23.00, -12.85, -11.71
CIE _{LCh}	23, 17.389, 222.340
Yxy	3.8003, 0.2132, 0.2848
Android (android.graphics.Color)	4278271304 (0xFF013D48)
YUV	44.3140, 13.6492, -37.9864
Hunter-Lab	19.4944, -8.0625, -6.7269

Details

The CIELCh color **23, 17.389, 222.340** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **14, 34.086, 36.649**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 17.457, 220.193**, and **5, 9.114, 246.725** is the 20% darker color. If you saturate the color by 10%, you get **23, 17.531, 222.609**, and if you desaturate by 10%, it is **24, 16.614, 220.707**.

Distribution



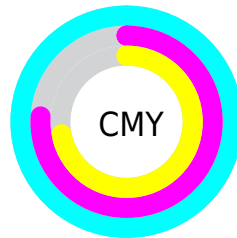
- Red (0%)
- Green (24%)
- Blue (28%)



- Red (0%)
- Yellow (13%)
- Blue (28%)



- Cyan (98%)
- Magenta (15%)
- Yellow (0%)
- Black (72%)





- Cyan (100%)
- Magenta (76%)
- Yellow (72%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 17.389, 222.340 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, 17.389, 222.340 by changing the saturation by 10% instead.

 23, 17.389,
222.340


 23, 17.389,
222.340

 100, 17.389,
222.340


 13, 17.389,
222.340


 43, 17.389,
222.340


 3, 17.389, 222.340

 53, 17.389,
222.340

 0, 17.389, 222.340

 63, 17.389,
222.340

 73, 17.389,
222.340

 83, 17.389,
222.340

 93, 17.389,

222.340

■ 23, 17.389,
222.340

■ 23, 17.389,
222.340

■ 23, 17.531,
222.609

■ 24, 16.614,
220.707

■ 24, 15.779,
219.052

■ 25, 14.639,
217.731

■ 25, 13.190,
216.708

■ 26, 11.451,
215.936

■ 27, 9.451, 215.375

■ 28, 7.223, 214.988

■ 29, 4.802, 214.751

■ 30, 2.221, 214.672

Harmonies

Complementary

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



23, 17.389, 222.340



14, 34.086, 36.649

Rectangle

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



23, 17.389, 222.340



23, 17.389, 272.340



23, 17.389, 42.340



23, 17.389, 92.340

Sweetspot

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



23, 17.389, 222.340



37, 9.237, 215.051



26, 43.873, 139.476



18, 6.343, 215.131



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



23, 17.389, 222.340



31, 21.076, 223.826



11, 33.468, 290.917



14, 1.494, 214.670



32, 21.862, 224.036



72, 39.874, 226.410

Inverse Universe

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



14, 41.097, 334.648



20, 49.809, 335.052



22, 30.980, 76.886



13, 2.803, 329.463



21, 51.637, 335.105



52, 93.531, 335.711

Previews

White Background



This preview shows how the CIELCh color 23, 17.389, 222.340 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, 17.389, 222.340 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

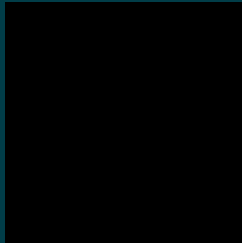
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 17.389, 222.340

Background



This preview shows how black text looks on a background with the CIELCh color 23, 17.389, 222.340.



This preview shows how white text looks on a background with the CIELCh color 23, 17.389, 222.340.

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, 17.439, 222.199

Protanopia

23, 8.722, 283.847

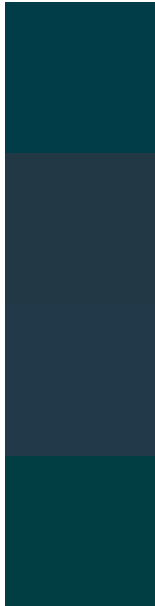
Deuteranopia

23, 12.705, 287.520



Tritanopia
23, 17.697, 205.361

Trichromacy



Original Color
23, 17.439, 222.199

Protanomaly
23, 11.445, 243.253

Deuteranomaly
23, 13.351, 252.248

Tritanomaly
23, 17.577, 210.004

Monochromacy



Original Color
23, 17.439, 222.199

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 9.106, 215.486

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 17.389, 222.340 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(1, 61, 72)` looks like.

```
.text, #text, p{  
    color:rgb(1, 61, 72)  
}
```

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(1, 61, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 61, 72) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 17.389, 222.340 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(1, 61, 72) }
```

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

```
.border{ border-color:rgb(1, 61, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 61, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 61, 72); -webkit-box-shadow:4px  
4px 4px 4px rgb(1, 61, 72); box-shadow:4px  
4px 4px 4px rgb(1, 61, 72) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 17.389, 222.340 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 61, 72) }
```

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

```
.background{ background-color: rgb(1, 61,  
72) }
```

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