

Converting Colors

CIELCh(23, 22.935, 171.243)

Have a look what the booklet for
CIELCh(23, 22.935, 171.243)
contains.

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Color

CIELCh(23, 22.730, 171.298)

Conversions

Conversions Part 1

Format	Color
Hex	003F31
RGB	0, 63, 49
RGB Percent	0%, 25%, 19%
CMY	0.9991, 0.7522, 0.8072
CMYK	1.00, 0.00, 0.22, 0.75
HSL	167°, 99%, 12%
HSV	167°, 100%, 25%
XYZ	2.3487, 3.8003, 3.5349
YIQ	42.5670, -33.0540, -17.7100

Conversions

Conversions Part 2

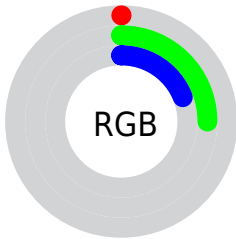
Format	Color
RYB	0, 35, 63
Decimal	16177
CIELab	23.00, -22.47, 3.44
CIELCh	23, 22.730, 171.298
Yxy	3.8003, 0.2425, 0.3924
Android (android.graphics.Color)	4278206257 (0xFF003F31)
YUV	42.5670, 3.1715, -37.3313
Hunter-Lab	19.4944, -12.6094, 2.8950

Details

The CIELCh color **23, 22.730, 171.298** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **10, 31.534, 17.366**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 22.698, 171.611**, and **4, 9.157, 147.286** is the 20% darker color. If you saturate the color by 10%, you get **23, 22.785, 171.259**, and if you desaturate by 10%, it is **23, 21.202, 172.457**.

Distribution



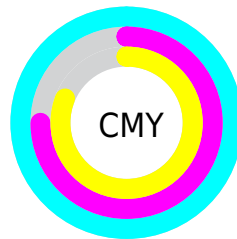
- Red (0%)
- Green (25%)
- Blue (19%)



- Red (0%)
- Yellow (14%)
- Blue (25%)



- Cyan (100%)
- Magenta (0%)
- Yellow (22%)
- Black (75%)



- Cyan (100%)
- Magenta (75%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 22.730, 171.298 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, 22.730, 171.298 by changing the saturation by 10% instead.

 23, 22.730,
171.298

 23, 22.730,
171.298

 100, 22.730,
171.298

 13, 22.730,
171.298


 43, 22.730,
171.298


 3, 22.730, 171.298

 53, 22.730,
171.298

 0, 22.730, 171.298

 63, 22.730,
171.298

 73, 22.730,
171.298

 83, 22.730,
171.298

 93, 22.730,

171.298

■ 23, 22.730,
171.298

■ 23, 22.730,
171.298

■ 23, 22.785,
171.259

■ 23, 21.202,
172.457

■ 23, 19.694,
173.777

■ 24, 17.951,
175.027

■ 24, 15.935,
176.172

■ 24, 13.672,
177.228

■ 25, 11.194,
178.210

■ 25, 8.540, 179.132

■ 26, 5.748, 180.008

■ 26, 2.854, 180.868

Harmonies

Complementary

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



23, 22.730, 171.298



10, 31.534, 17.366

Rectangle

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



23, 22.730, 171.298



23, 22.730, 221.298



23, 22.730, 351.298



23, 22.730, 41.298

Sweetspot

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



23, 22.730, 171.297



33, 10.662, 178.984



23, 41.560, 133.447



15, 7.130, 178.852



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



23, 22.730, 171.297



30, 27.327, 170.412



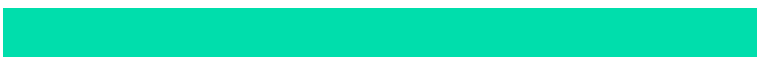
17, 16.555, 242.982



11, 1.601, 180.981



35, 30.365, 170.000



79, 57.795, 168.372

Inverse Universe

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



10, 31.534, 17.366



15, 38.490, 21.964



12, 28.654, 41.319



10, 1.646, 2.143



18, 42.984, 23.608



47, 82.937, 28.441

Previews

White Background



This preview shows how the CIELCh color 23, 22.730, 171.298 looks on a white background.

Color Contrast Check

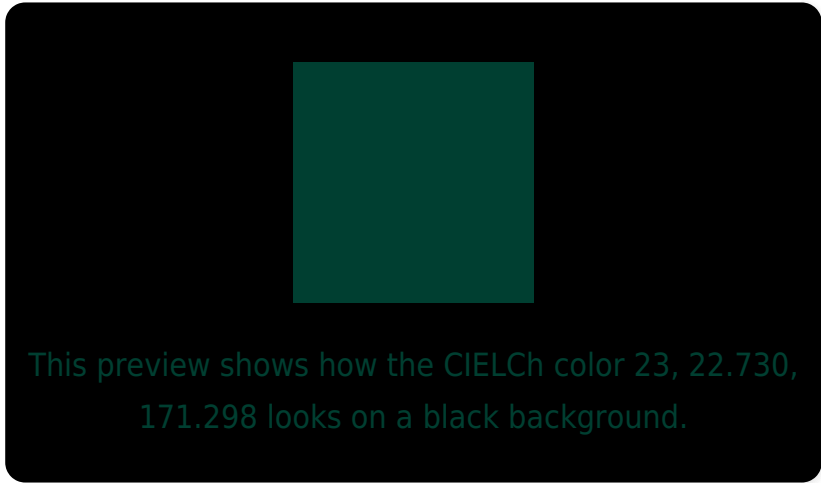
Large Text (above 18pt) WCAG AA ✓ Pass

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, 22.730, 171.298

Background



This preview shows how black text looks on a background with the CIELCh color 23, 22.730, 171.298.



This preview shows how white text looks on a background with the CIELCh color 23, 22.730, 171.298.

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, 22.730, 171.298

Protanopia
23, 6.914, 92.221

Deuteranopia
23, 4.505, 37.226



Tritanopia
23, 14.313, 210.766

Trichromacy



Original Color
23, 22.730, 171.298

Protanomaly
22, 11.689, 158.398

Deuteranomaly
22, 8.981, 166.279

Tritanomaly
23, 16.657, 191.964

Monochromacy



Original Color
23, 22.730, 171.298

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 10.527, 178.204

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 22.730, 171.298 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(0, 63, 49)` looks like.

```
.text, #text, p{  
    color:rgb(0, 63, 49)  
}
```

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(0, 63, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 63, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 22.730, 171.298 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(0, 63, 49) }
```

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

```
.border{ border-color:rgb(0, 63, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 63, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 63, 49); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 63, 49); box-shadow:4px  
4px 4px 4px rgb(0, 63, 49) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 22.730, 171.298 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 63, 49) }
```

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

```
.background{ background-color: rgb(0, 63,  
49) }
```

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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