

Converting Colors

CIELCh(13, 21.344, 270.575)

Have a look what the booklet for
CIELCh(13, 21.344, 270.575)
contains.

CIELCh(13, 21.280, 271.100)	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(13, 21.280, 271.100)

Conversions

Conversions Part 1

Format	Color
Hex	00233F
RGB	0, 35, 63
RGB Percent	0%, 14%, 25%
CMY	0.9999, 0.8627, 0.7529
CMYK	1.00, 0.44, 0.00, 0.75
HSL	207°, 100%, 12%
HSV	207°, 100%, 25%
XYZ	1.4997, 1.5625, 4.9283
YIQ	27.7270, -29.8480, 1.2880

Conversions

Conversions Part 2

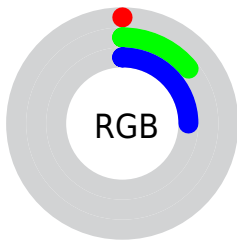
Format	Color
RYB	0, 23, 63
Decimal	9023
CIELab	13.00, 0.41, -21.28
CIElCh	13, 21.280, 271.100
Yxy	1.5625, 0.1877, 0.1955
Android (android.graphics.Color)	4278199103 (0xFF00233F)
YUV	27.7270, 17.3896, -24.3166
Hunter-Lab	12.5000, -0.4590, -14.6261

Details

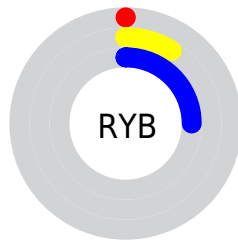
The CIELCh color **13, 21.280, 271.100** is a dark color, and the websafe version is hex **003366**. A complement of this color would be **15, 26.819, 56.312**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 21.356, 270.930**, and **1, 8.892, 288.391** is the 20% darker color. If you saturate the color by 10%, you get **13, 21.289, 271.113**, and if you desaturate by 10%, it is **14, 19.271, 268.273**.

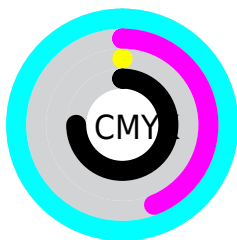
Distribution



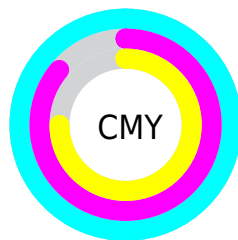
- Red (0%)
- Green (14%)
- Blue (25%)



- Red (0%)
- Yellow (9%)
- Blue (25%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (75%)



- Cyan (100%)
- Magenta (86%)
- Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 21.280, 271.100 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 13, 21.280, 271.100 by changing the saturation by 10% instead.

■ 13, 21.280,
271.100

■ 13, 21.280,
271.100

■ 100, 21.280,
271.100

■ 3, 21.280, 271.100

■ 33, 21.280,
271.100

■ 0, 21.280, 271.100

■ 43, 21.280,
271.100

■ 53, 21.280,
271.100

■ 63, 21.280,
271.100

■ 73, 21.280,
271.100

■ 83, 21.280,

271.100

■ 93, 21.280,
271.100

■ 13, 21.280,
271.100

■ 13, 21.280,
271.100

■ 13, 21.289,
271.113

■ 14, 19.271,
268.273

■ 15, 17.362,
264.888

■ 17, 15.430,
261.729

■ 18, 13.431,
258.988

■ 19, 11.356,
256.637

■ 21, 9.205, 254.636

■ 22, 6.983, 252.937

■ 24, 4.700, 251.501

■ 25, 2.366, 250.305

Harmonies

Complementary

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



13, 21.280, 271.100



15, 26.819, 56.312

Rectangle

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



13, 21.280, 271.100



13, 21.280, 321.100



13, 21.280, 91.100



13, 21.280, 141.100

Sweetspot

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



13, 21.280, 271.101



29, 8.659, 253.149



22, 32.693, 149.214



13, 5.797, 253.384



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



13, 21.280, 271.101



18, 26.183, 273.453



4, 41.446, 300.364



11, 1.289, 250.142



21, 29.430, 274.547



51, 58.711, 278.685

Inverse Universe

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



10, 32.257, 352.136



15, 38.069, 353.599



24, 33.384, 99.195



10, 1.999, 341.296



19, 41.935, 354.321



48, 77.195, 357.320

Previews

White Background



This preview shows how the CIELCh color 13, 21.280, 271.100 looks on a white background.

Color Contrast Check

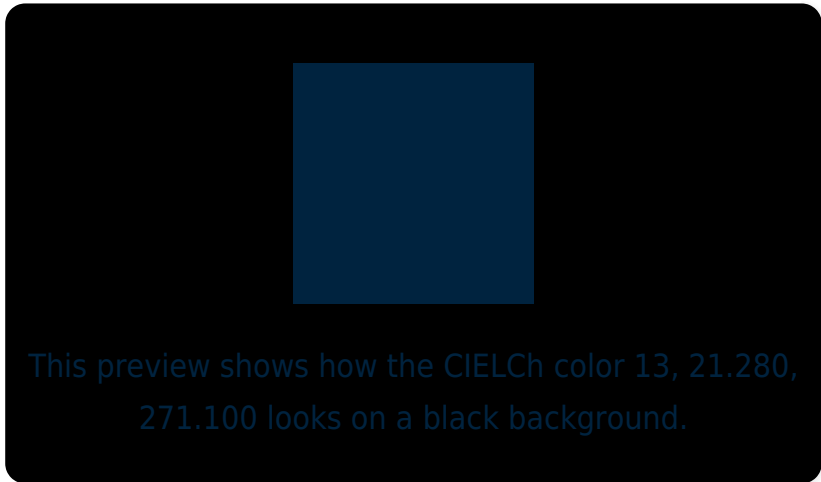
Large Text (above 18pt) WCAG AA ✓ Pass

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

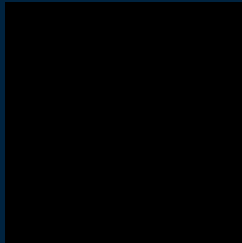
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 21.280, 271.100

Background



This preview shows how black text looks on a background with the CIELCh color 13, 21.280, 271.100.



This preview shows how white text looks on a background with the CIELCh color 13, 21.280, 271.100.

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

13, 21.280, 271.100

Protanopia

14, 20.203, 283.525

Deuteranopia

13, 20.684, 269.799



Tritanopia
13, 13.042, 206.247

Trichromacy



Original Color
13, 21.280, 271.100

Protanomaly
13, 20.593, 278.228

Deuteranomaly
13, 20.684, 269.799

Tritanomaly
13, 13.794, 236.624

Monochromacy



Original Color
13, 21.280, 271.100

Achromatopsia
10, 0.003, 296.813

Achromatomaly
11, 8.774, 255.664

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 21.280, 271.100 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, 35, 63)` looks like.

```
.text, #text, p{  
    color:rgb(0, 35, 63)  
}
```

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, 35, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 35, 63) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 21.280, 271.100 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, 35, 63) }
```

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

```
.border{ border-color:rgb(0, 35, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 35, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 35, 63); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 35, 63); box-shadow:4px  
4px 4px 4px rgb(0, 35, 63) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 21.280, 271.100 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 35, 63) }
```

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

```
.background{ background-color: rgb(0, 35,  
63) }
```

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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