

Converting Colors

CIELCh(13, 20.778, 216.440)

Have a look what the booklet for
CIELCh(13, 20.778, 216.440)
contains.

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Color

CIELCh(14, 13.810, 228.580)

Conversions

Conversions Part 1

Format	Color
Hex	002832
RGB	0, 40, 50
RGB Percent	0%, 16%, 20%
CMY	1.0000, 0.8440, 0.8048
CMYK	1.00, 0.20, 0.00, 0.80
HSL	192°, 100%, 10%
HSV	192°, 100%, 20%
XYZ	1.3197, 1.7298, 3.2563
YIQ	29.1800, -27.0500, -5.3700

Conversions

Conversions Part 2

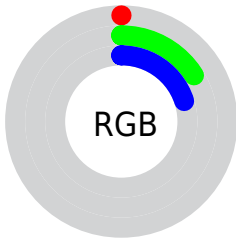
Format	Color
RYB	0, 22, 50
Decimal	10290
CIELab	14.00, -9.14, -10.36
CIELCh	14, 13.810, 228.580
Yxy	1.7298, 0.2093, 0.2743
Android (android.graphics.Color)	4278200370 (0xFF002832)
YUV	29.1800, 10.2643, -25.5909
Hunter-Lab	13.1521, -5.1058, -5.4730

Details

The CIELCh color **14, 13.810, 228.580** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **8, 23.010, 32.785**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **34, 13.671, 228.566**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 13.771, 228.684**, and if you desaturate by 10%, it is **15, 12.840, 227.430**.

Distribution



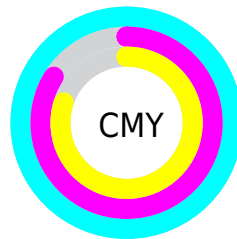
- Red (0%)
- Green (16%)
- Blue (20%)



- Red (0%)
- Yellow (9%)
- Blue (20%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (80%)



- Cyan (100%)
- Magenta (84%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 14, 13.810, 228.580 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 14, 13.810, 228.580 by changing the saturation by 10% instead.

■ 14, 13.810,
228.580

■ 14, 13.810,
228.580

■ 100, 13.810,
228.580

■ 4, 13.810, 228.580

■ 34, 13.810,
228.580

■ 0, 13.810, 228.580

■ 44, 13.810,
228.580


■ 54, 13.810,
228.580


■ 64, 13.810,
228.580


■ 74, 13.810,
228.580


■ 84, 13.810,


228.580


 94, 13.810,
228.580


 14, 13.810,
228.580

 14, 13.810,
228.580

 14, 13.771,
228.684

 15, 12.840,
227.430

 15, 11.969,
225.859

 16, 11.032,
224.281

 16, 9.903, 223.013

 17, 8.593, 222.009

 18, 7.121, 221.226

■ 18, 5.505, 220.628

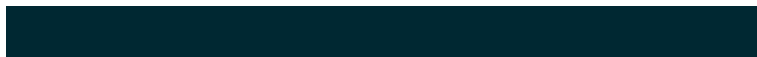
■ 19, 3.767, 220.189

■ 20, 1.926, 219.906

Harmonies

Complementary

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



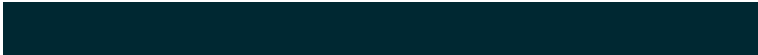
14, 13.810, 228.580



8, 23.010, 32.785

Rectangle

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



14, 13.810, 228.580



14, 13.810, 278.580



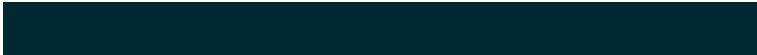
14, 13.810, 48.580



14, 13.810, 98.580

Sweetspot

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



14, 13.771, 228.684



24, 6.748, 220.709



17, 32.516, 142.806



11, 4.641, 220.758



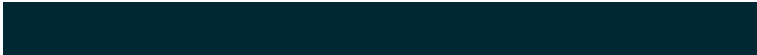
66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



14, 13.771, 228.684



19, 16.154, 230.549



5, 25.740, 288.634



9, 1.090, 219.881



28, 20.316, 232.654



66, 38.921, 236.195

Inverse Universe

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



7, 31.983, 336.296



11, 37.306, 336.792



15, 21.959, 81.845



8, 2.030, 330.941



18, 46.468, 337.356



49, 87.349, 338.332

Previews

White Background



This preview shows how the CIELCh color 14, 13.810, 228.580 looks on a white background.

Color Contrast Check

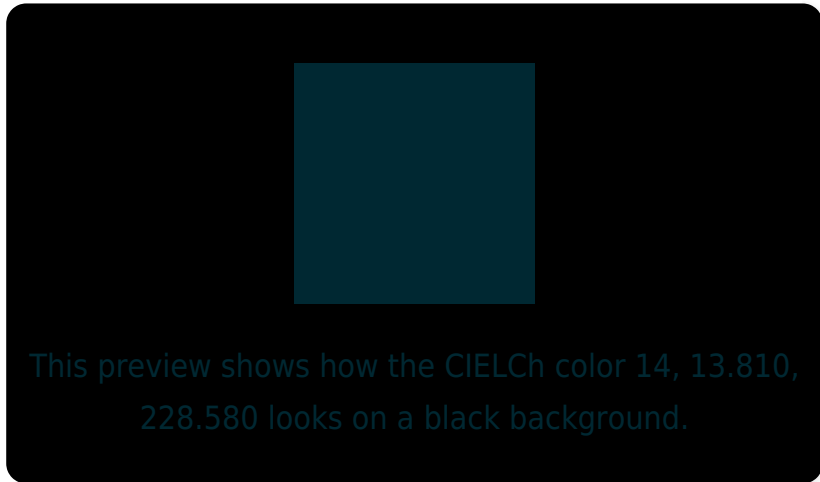
Large Text (above 18pt) WCAG AA ✓ Pass

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

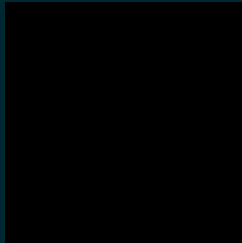
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

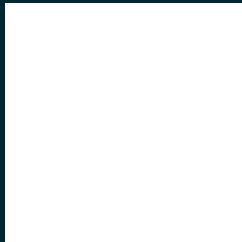
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 14, 13.810, 228.580

Background



This preview shows how black text looks on a background with the CIELCh color 14, 13.810, 228.580.



This preview shows how white text looks on a background with the CIELCh color 14, 13.810, 228.580.

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

14, 13.810, 228.580

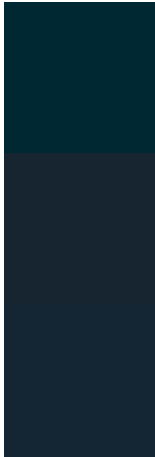
Protanopia

14, 7.841, 285.964

Deuteranopia

14, 10.725, 284.247

Trichromacy



Original Color
14, 13.810, 228.580

Protanomaly
14, 9.574, 254.195

Deuteranomaly
14, 11.520, 259.454

Monochromacy



Original Color
14, 13.810, 228.580

Achromatopsia
11, 0.003, 296.813

Achromatomaly
12, 6.895, 223.182

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 14, 13.810, 228.580 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, 40, 50)` looks like.

```
.text, #text, p{  
    color:rgb(0, 40, 50)  
}
```

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, 40, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 40, 50) }
```

Border

The CSS property to change the border of an element to CIELCh 14, 13.810, 228.580 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, 40, 50) }
```

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

```
.border{ border-color:rgb(0, 40, 50) }
```

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

Here you see how a box with a 4 pixel rgb(0, 40, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 40, 50); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 40, 50); box-shadow:4px  
4px 4px 4px rgb(0, 40, 50) }
```

Background

The CSS property to change the background color of an element to CIELCh 14, 13.810, 228.580 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 40, 50) }
```

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

```
.background{ background-color: rgb(0, 40,  
50) }
```

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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