

# Converting Colors

CIELCh(14, 13.626, 220.724)

Have a look what the booklet for  
CIELCh(14, 13.626, 220.724)  
contains.

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# Color

**CIELCh(14, 13.513, 222.249)**

# Conversions

## Conversions Part 1

Format	Color
Hex	002830
RGB	0, 40, 48
RGB Percent	0%, 16%, 19%
CMY	1.0000, 0.8432, 0.8118
CMYK	1.00, 0.17, 0.00, 0.81
HSL	190°, 100%, 9%
HSV	190°, 100%, 19%
XYZ	1.2913, 1.7298, 3.0605
YIQ	28.9520, -26.4080, -5.9920

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 22, 48
Decimal	10288
CIELab	14.00, -10.00, -9.09
CIELCh	14, 13.513, 222.249
Yxy	1.7298, 0.2123, 0.2844
Android (android.graphics.Color)	4278200368 (0xFF002830)
YUV	28.9520, 9.3907, -25.3909
Hunter-Lab	13.1521, -5.4904, -4.5902

# Details

The CIELCh color **14, 13.513, 222.249** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 22.559, 29.930**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **34, 13.542, 222.750**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 13.510, 222.253**, and if you desaturate by 10%, it is **14, 12.605, 221.335**.

# Distribution



- Red (0%)
- Green (16%)
- Blue (19%)



- Red (0%)
- Yellow (9%)
- Blue (19%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (81%)




- Cyan (100%)
- Magenta (84%)
- Yellow (81%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 14, 13.513, 222.249 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, 13.513, 222.249 by changing the saturation by 10% instead.




 14, 13.513,  
222.249


 14, 13.513,  
222.249


 100, 13.513,  
222.249


 4, 13.513, 222.249


 34, 13.513,  
222.249

 0, 13.513, 222.249

 44, 13.513,  
222.249


 54, 13.513,  
222.249


 64, 13.513,  
222.249


 74, 13.513,  
222.249


 84, 13.513,


222.249


 94, 13.513,  
222.249


 14, 13.513,  
222.249

 14, 13.513,  
222.249

 14, 13.510,  
222.253

 14, 12.605,  
221.335

 15, 11.756,  
220.164

 15, 10.855,  
218.952

 16, 9.757, 217.994

 17, 8.476, 217.253

 17, 7.030, 216.696

■ 18, 5.439, 216.294

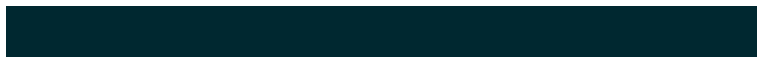
■ 18, 3.724, 216.025

■ 19, 1.905, 215.894

# Harmonies

# Complementary

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



14, 13.513, 222.249



7, 22.559, 29.930

# Rectangle

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



14, 13.513, 222.249



14, 13.513, 272.249



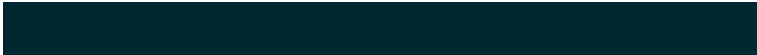
14, 13.513, 42.249



14, 13.513, 92.249

# Sweetspot

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



14, 13.510, 222.253



23, 6.644, 216.347



16, 32.114, 142.569



10, 4.421, 216.359



65, 0.008, 296.813



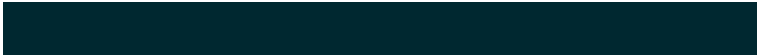
12, 0.003, 296.813





# Same Dimension

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



14, 13.510, 222.253



19, 15.738, 223.781



5, 23.804, 286.353



7, 0.958, 216.520



28, 19.850, 225.608



67, 38.178, 228.643



# Inverse Universe

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



7, 31.863, 334.635



11, 37.198, 335.040



14, 20.569, 78.569



7, 1.753, 329.563



18, 46.679, 335.505



49, 88.852, 336.289



# Previews

## White Background



This preview shows how the CIELCh color 14, 13.513, 222.249 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

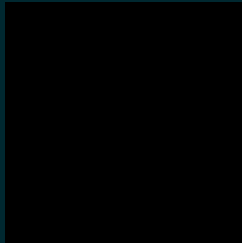
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

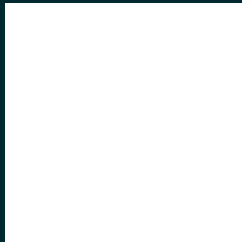
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 14, 13.513, 222.249**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 14, 13.513, 222.249.



This preview shows how white text looks on a background with the CIELCh color 14, 13.513, 222.249.

# 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, 13.513, 222.249


### Protanopia

14, 6.437, 284.027

### Deuteranopia

14, 9.284, 284.846





**Tritanopia**  
14, 13.385, 209.138

# Trichromacy



**Original Color**  
14, 13.513, 222.249

**Protanomaly**  
14, 8.597, 247.264

**Deuteranomaly**  
14, 10.279, 255.591

**Tritanomaly**  
14, 13.358, 212.427

# Monochromacy



**Original Color**  
14, 13.513, 222.249

**Achromatopsia**  
11, 0.003, 296.813

**Achromatomaly**  
12, 6.727, 217.034

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 14, 13.513, 222.249 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, 48)` looks like.

```
.text, #text, p{  
    color:rgb(0, 40, 48)  
}
```

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, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 40, 48) }
```

## Border

The CSS property to change the border of an element to CIELCh 14, 13.513, 222.249 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, 48) }
```

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

```
.border{ border-color:rgb(0, 40, 48) }
```

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, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 40, 48); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 40, 48); box-shadow:4px  
4px 4px 4px rgb(0, 40, 48) }
```

# Background

The CSS property to change the background color of an element to CIELCh 14, 13.513, 222.249 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, 48) }
```

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

```
.background{ background-color: rgb(0, 40,  
48) }
```

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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