

Converting Colors

CIELCh(13, 25.870, 197.979)

Have a look what the booklet for
CIELCh(13, 25.870, 197.979)
contains.

CIELCh(15, 13.965, 202.420)	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(15, 13.965, 202.420)

Conversions

Conversions Part 1

Format	Color
Hex	012B2D
RGB	1, 43, 45
RGB Percent	0%, 17%, 18%
CMY	0.9971, 0.8320, 0.8242
CMYK	0.98, 0.04, 0.00, 0.82
HSL	183°, 97%, 9%
HSV	183°, 98%, 18%
XYZ	1.3374, 1.9086, 2.7633
YIQ	30.6700, -25.6740, -8.2820

Conversions

Conversions Part 2

Format	Color
R_YB	1, 22, 45
Decimal	76589
CIE Lab	15.00, -12.91, -5.33
CIE LCh	15, 13.965, 202.420
Yxy	1.9086, 0.2226, 0.3176
Android (android.graphics.Color)	4278266669 (0xFF012B2D)
YUV	30.6700, 7.0647, -26.0206
Hunter-Lab	13.8151, -6.8961, -2.1888

Details

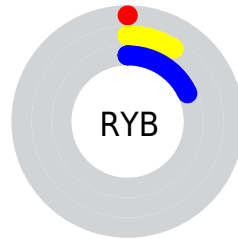
The CIELCh color **15, 13.965, 202.420** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **6, 22.137, 22.335**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 13.991, 202.755**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 14.124, 202.420**, and if you desaturate by 10%, it is **15, 13.021, 202.379**.

Distribution



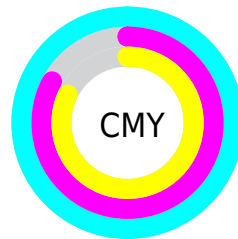
- Red (0%)
- Green (17%)
- Blue (18%)



- Red (0%)
- Yellow (9%)
- Blue (18%)



- Cyan (98%)
- Magenta (4%)
- Yellow (0%)
- Black (82%)





- Cyan (100%)
- Magenta (83%)
- Yellow (82%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 13.965, 202.420 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 15, 13.965, 202.420 by changing the saturation by 10% instead.

 15, 13.965,
202.420


 15, 13.965,
202.420


 100, 13.965,
202.420


 5, 13.965, 202.420


 35, 13.965,
202.420

 0, 13.965, 202.420

 45, 13.965,
202.420


 55, 13.965,
202.420


 65, 13.965,
202.420


 75, 13.965,
202.420


 85, 13.965,


202.420


 95, 13.965,
202.420


 15, 13.965,
202.420

 15, 13.965,
202.420

 15, 14.124,
202.420

 15, 13.021,
202.379

 15, 12.117,
202.281

 16, 11.146,
202.187

 16, 9.971, 202.178

 16, 8.608, 202.248

 17, 7.074, 202.387

■ 17, 5.392, 202.589

■ 18, 3.582, 202.852

■ 18, 1.666, 203.203

Harmonies

Complementary

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



15, 13.965, 202.420



6, 22.137, 22.335

Rectangle

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



15, 13.965, 202.420



15, 13.965, 252.420



15, 13.965, 22.420



15, 13.965, 72.420

Sweetspot

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



15, 13.965, 202.419



23, 7.084, 202.513



15, 32.098, 141.066



10, 4.881, 202.500



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



15, 13.965, 202.419



21, 16.674, 202.801



7, 18.349, 276.335



7, 1.061, 203.654



31, 21.579, 203.256



75, 41.322, 203.920

Inverse Universe

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



7, 32.400, 329.613



11, 39.331, 329.858



11, 17.653, 63.818



7, 1.914, 325.697



19, 50.962, 329.971



50, 97.754, 330.136

Previews

White Background



This preview shows how the CIELCh color 15, 13.965, 202.420 looks on a white background.

Color Contrast Check

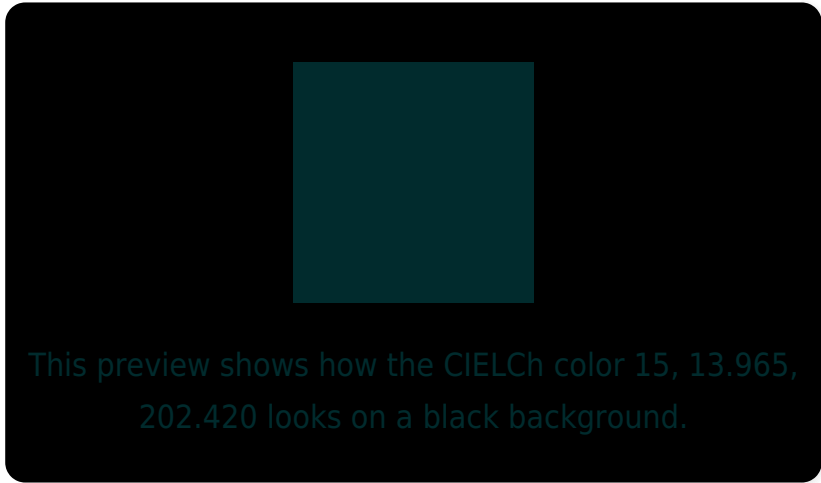
Large Text (above 18pt) WCAG AA ✓ Pass

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

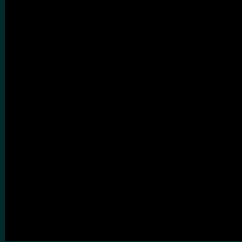
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

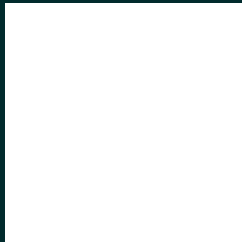
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 15, 13.965, 202.420

Background



This preview shows how black text looks on a background with the CIELCh color 15, 13.965, 202.420.



This preview shows how white text looks on a background with the CIELCh color 15, 13.965, 202.420.

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

15, 13.939, 202.451

Protanopia

15, 2.823, 290.957

Deuteranopia

15, 5.640, 291.705



Tritanopia
15, 12.956, 206.320

Trichromacy



Original Color
15, 13.939, 202.451

Protanomaly
15, 7.040, 215.697

Deuteranomaly
15, 7.679, 231.997

Tritanomaly
15, 13.392, 205.926

Monochromacy



Original Color
15, 13.939, 202.451

Achromatopsia
11, 0.003, 296.813

Achromatomaly
12, 7.046, 197.722

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 13.965, 202.420 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, 43, 45)` looks like.

```
.text, #text, p{  
    color:rgb(1, 43, 45)  
}
```

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, 43, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 43, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 13.965, 202.420 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, 43, 45) }
```

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

```
.border{ border-color:rgb(1, 43, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 43, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 43, 45); -webkit-box-shadow:4px  
4px 4px 4px rgb(1, 43, 45); box-shadow:4px  
4px 4px 4px rgb(1, 43, 45) }
```

Background

The CSS property to change the background color of an element to CIELCh 15, 13.965, 202.420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 43, 45) }
```

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

```
.background{ background-color: rgb(1, 43,  
45) }
```

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