

Converting Colors

CIELCh(13, 11.988, 306.022)

Have a look what the booklet for
CIELCh(13, 11.988, 306.022)
contains.

CIELCh(13, 11.855, 306.221)	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, 11.855, 306.221)

Conversions

Conversions Part 1

Format	Color
Hex	251F2F
RGB	37, 31, 47
RGB Percent	15%, 12%, 18%
CMY	0.8557, 0.8792, 0.8165
CMYK	0.21, 0.34, 0.00, 0.82
HSL	262°, 21%, 15%
HSV	262°, 34%, 18%
XYZ	1.7490, 1.5625, 2.8762
YIQ	34.6180, -1.5600, 6.2480

Conversions

Conversions Part 2

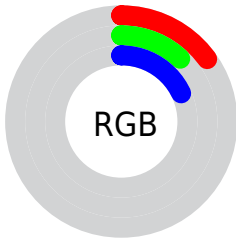
Format	Color
R_{YB}	37, 31, 47
Decimal	2432815
CIE Lab	13.00, 7.01, -9.56
CIE LCh	13, 11.855, 306.221
Yxy	1.5625, 0.2827, 0.2525
Android (android.graphics.Color)	4280622895 (0xFF251F2F)
YUV	34.6180, 6.1043, 2.0890
Hunter-Lab	12.5000, 3.1014, -4.8924

Details

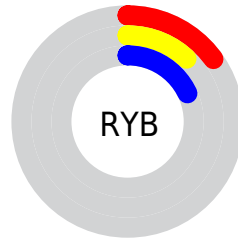
The CIELCh color **13, 11.855, 306.221** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **18, 11.277, 123.120**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 11.755, 306.061**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 15.509, 306.793**, and if you desaturate by 10%, it is **15, 8.277, 305.686**.

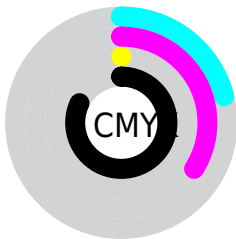
Distribution



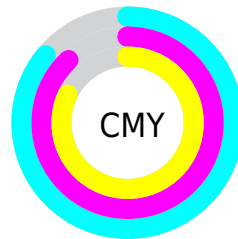
- Red (15%)
- Green (12%)
- Blue (18%)



- Red (15%)
- Yellow (12%)
- Blue (18%)



- Cyan (21%)
- Magenta (34%)
- Yellow (0%)
- Black (82%)



- Cyan (86%)
- Magenta (88%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 11.855, 306.221 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, 11.855, 306.221 by changing the saturation by 10% instead.

■ 13, 11.855,
306.221

■ 13, 11.855,
306.221

■ 100, 11.855,
306.221

■ 3, 11.855, 306.221

■ 33, 11.855,
306.221

■ 0, 11.855, 306.221

■ 43, 11.855,
306.221


■ 53, 11.855,
306.221


■ 63, 11.855,
306.221


■ 73, 11.855,
306.221


■ 83, 11.855,

306.221

 93, 11.855,
306.221

 13, 11.855,
306.221

 13, 11.855,
306.221

 11, 15.509,
306.793

 15, 8.277, 305.686

 9, 19.218, 307.394

 17, 4.788, 305.194

 8, 22.919, 307.971

 19, 1.392, 304.735

 6, 25.924, 307.725


 20, 1.911, 124.367

 5, 28.128, 306.771

 22, 5.123, 123.998

 4, 30.099, 305.633

 24, 8.246, 123.674

 26, 11.284,

■ 3, 31.237, 305.076

123.387

■ 28, 14.240,
123.133

■ 29, 17.120,
122.908

Harmonies

Complementary

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



13, 11.855, 306.221



18, 11.277, 123.120

Rectangle

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



13, 11.855, 306.221



13, 11.855, 356.221



13, 11.855, 126.221



13, 11.855, 176.221

Sweetspot

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



13, 11.854, 306.221



24, 4.216, 305.027



16, 5.888, 243.324



10, 2.809, 305.033



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



13, 11.854, 306.221



16, 18.030, 306.745



14, 13.026, 322.073



7, 1.675, 304.185



9, 57.824, 310.253



31, 112.423, 309.332

Inverse Universe

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



14, 10.437, 339.687



18, 15.677, 340.384



18, 12.922, 139.177



7, 1.503, 337.902



17, 40.895, 348.505



47, 77.392, 351.070

Previews

White Background



This preview shows how the CIE LCh color 13, 11.855, 306.221 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, 11.855, 306.221

Background



This preview shows how black text looks on a background with the CIELCh color 13, 11.855, 306.221.



This preview shows how white text looks on a background with the CIELCh color 13, 11.855, 306.221.

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

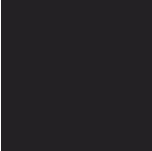
13, 11.855, 306.221

Protanopia

13, 11.554, 285.344

Deuteranopia

13, 9.395, 285.074



Tritanopia
13, 2.378, 314.910

Trichromacy



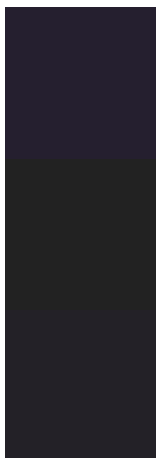
Original Color
13, 11.855, 306.221

Protanomaly
13, 11.521, 293.491

Deuteranomaly
13, 10.090, 293.105

Tritanomaly
13, 6.085, 309.789

Monochromacy



Original Color
13, 11.855, 306.221

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 4.430, 303.732

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 11.855, 306.221 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(37, 31, 47)` looks like.

```
.text, #text, p{  
    color:rgb(37, 31, 47)  
}
```

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(37, 31, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 31, 47) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 11.855, 306.221 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(37, 31, 47) }
```

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

```
.border{ border-color:rgb(37, 31, 47) }
```

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

Here you see how a box with a 4 pixel rgb(37, 31, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 31, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 31, 47);  
box-shadow:4px 4px 4px 4px rgb(37, 31, 47)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 11.855, 306.221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 31, 47) }
```

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

```
.background{ background-color: rgb(37, 31,  
47) }
```

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