

Converting Colors

CIELCh(13, 55.735, 312.547)

Have a look what the booklet for
CIELCh(13, 55.735, 312.547)
contains.

CIELCh(13, 55.735, 312.547)	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, 55.735, 312.547)

Conversions

Conversions Part 1

Format	Color
Hex	31065C
RGB	49, 6, 92
RGB Percent	19%, 2%, 36%
CMY	0.8074, 0.9761, 0.6388
CMYK	0.47, 0.93, 0.00, 0.64
HSL	270°, 88%, 19%
HSV	270°, 93%, 36%
XYZ	3.2741, 1.5625, 10.2771
YIQ	28.6610, -1.9780, 35.8620

Conversions

Conversions Part 2

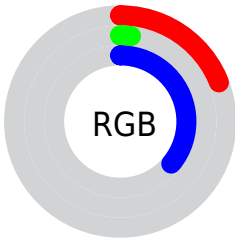
Format	Color
RYB	49, 6, 92
Decimal	3212892
CIELab	13.00, 37.69, -41.06
CIElCh	13, 55.735, 312.547
Yxy	1.5625, 0.2166, 0.1034
Android (android.graphics.Color)	4281402972 (0xFF31065C)
YUV	28.6610, 31.2261, 17.8373
Hunter-Lab	12.5000, 24.8792, -39.9964

Details

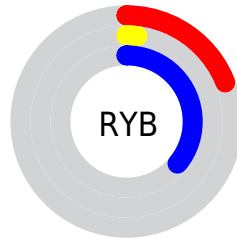
The CIELCh color **13, 55.735, 312.547** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **35, 49.054, 126.782**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 55.944, 312.742**, and **2, 28.886, 294.603** is the 20% darker color. If you saturate the color by 10%, you get **12, 58.867, 312.680**, and if you desaturate by 10%, it is **15, 51.351, 312.564**.

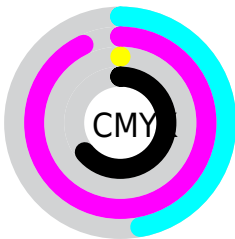
Distribution



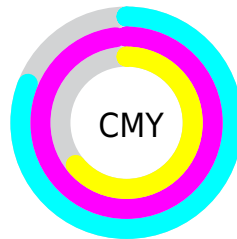
- Red (19%)
- Green (2%)
- Blue (36%)



- Red (19%)
- Yellow (2%)
- Blue (36%)



- Cyan (47%)
- Magenta (93%)
- Yellow (0%)
- Black (64%)





- Cyan (81%)
- Magenta (98%)
- Yellow (64%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 55.735, 312.547 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, 55.735, 312.547 by changing the saturation by 10% instead.

 13, 55.735,
312.547


 13, 55.735,
312.547


 100, 55.735,
312.547


 3, 55.735, 312.547


 33, 55.735,
312.547

 0, 55.735, 312.547

 43, 55.735,
312.547


 53, 55.735,
312.547


 63, 55.735,
312.547


 73, 55.735,
312.547


 83, 55.735,


312.547


 93, 55.735,
312.547


 13, 55.735,
312.547


 13, 55.735,
312.547


 12, 58.867,
312.680

 15, 51.351,
312.564

 17, 46.084,
312.383

 20, 40.127,
312.030

 23, 33.796,
311.579

 26, 27.315,
311.083

■ 29, 20.828,
310.579

■ 32, 14.423,
310.089

■ 35, 8.149, 309.625

■ 38, 2.033, 309.174

Harmonies

Complementary

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



13, 55.735, 312.547



35, 49.054, 126.782

Rectangle

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



13, 55.735, 312.547



13, 55.735, 2.547



13, 55.735, 132.547



13, 55.735, 182.547

Sweetspot

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



13, 55.735, 312.548



39, 21.599, 310.356



20, 29.948, 278.299



18, 15.079, 310.504



77, 0.009, 296.813



26, 0.004, 296.813

Same Dimension

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



13, 55.735, 312.548



17, 71.114, 312.326



21, 53.179, 328.124



17, 3.384, 309.422



15, 66.679, 312.437



38, 118.314, 311.721

Inverse Universe

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



19, 39.175, 357.169



25, 48.657, 0.270



33, 54.819, 136.577



17, 2.724, 344.281



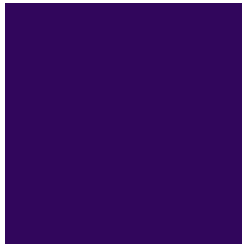
22, 45.715, 359.835



51, 80.125, 2.763

Previews

White Background



This preview shows how the CIELCh color 13, 55.735, 312.547 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



This preview shows how the CIE LCh color 13, 55.735, 312.547 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

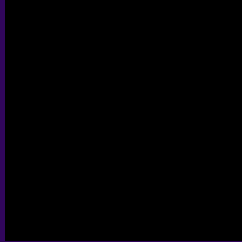
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 55.735, 312.547

Background



This preview shows how black text looks on a background with the CIELCh color 13, 55.735, 312.547.



This preview shows how white text looks on a background with the CIELCh color 13, 55.735, 312.547.

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, 55.735, 312.547

Protanopia

14, 28.189, 281.683

Deuteranopia

14, 20.142, 266.939



Tritanopia
14, 2.134, 290.791

Trichromacy



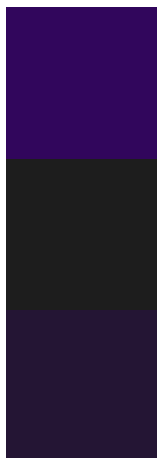
Original Color
13, 55.735, 312.547

Protanomaly
12, 40.682, 298.837

Deuteranomaly
12, 34.511, 296.159

Tritanomaly
12, 24.481, 311.080

Monochromacy



Original Color
13, 55.735, 312.547

Achromatopsia
11, 0.003, 296.813

Achromatomaly
10, 23.410, 311.116

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 55.735, 312.547 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(49, 6, 92)` looks like.

```
.text, #text, p{  
    color:rgb(49, 6, 92)  
}
```

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(49, 6, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 6, 92) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 55.735, 312.547 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(49, 6, 92) }
```

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

```
.border{ border-color:rgb(49, 6, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 6, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 6, 92); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 6, 92); box-shadow:4px  
4px 4px 4px rgb(49, 6, 92) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 55.735, 312.547 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 6, 92) }
```

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

```
.background{ background-color: rgb(49, 6,  
92) }
```

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