

Converting Colors

CIELCh(4, 97.814, 318.547)

Have a look what the booklet for
CIELCh(4, 97.814, 318.547) contains.

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Color

CIELCh(13, 65.454, 311.166)

Conversions

Conversions Part 1

Format	Color
Hex	2D0068
RGB	45, 0, 104
RGB Percent	18%, 0%, 41%
CMY	0.8222, 1.0000, 0.5906
CMYK	0.57, 1.00, 0.00, 0.59
HSL	266°, 100%, 20%
HSV	266°, 100%, 41%
XYZ	3.6109, 1.5625, 13.3161
YIQ	25.3110, -6.5640, 41.8840

Conversions

Conversions Part 2

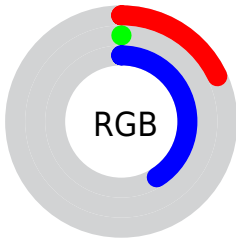
Format	Color
R_{YB}	45, 0, 104
Decimal	2949224
CIE _{Lab}	13.00, 43.08, -49.27
CIE _{LCh}	13, 65.454, 311.166
Yxy	1.5625, 0.1953, 0.0845
Android (android.graphics.Color)	4281139304 (0xFF2D0068)
YUV	25.3110, 38.7937, 17.2673
Hunter-Lab	12.5000, 29.6883, -54.4111

Details

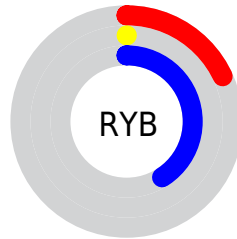
The CIELCh color **13, 65.454, 311.166** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **39, 54.967, 124.825**, and the grayscale version is **9, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 64.800, 310.953**, and **2, 36.912, 298.316** is the 20% darker color. If you saturate the color by 10%, you get **13, 65.239, 311.096**, and if you desaturate by 10%, it is **15, 60.419, 310.965**.

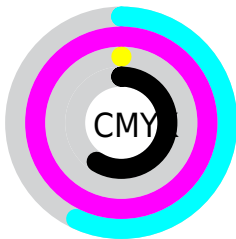
Distribution



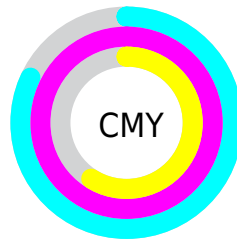
- Red (18%)
- Green (0%)
- Blue (41%)



- Red (18%)
- Yellow (0%)
- Blue (41%)



- Cyan (57%)
- Magenta (100%)
- Yellow (0%)
- Black (59%)



- Cyan (82%)
- Magenta (100%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 65.454, 311.166 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, 65.454, 311.166 by changing the saturation by 10% instead.

■ 13, 65.454,
311.166

■ 13, 65.454,
311.166

■ 100, 65.454,
311.166

■ 3, 65.454, 311.166

■ 33, 65.454,
311.166

■ 0, 65.454, 311.166

■ 43, 65.454,
311.166


■ 53, 65.454,
311.166


■ 63, 65.454,
311.166


■ 73, 65.454,
311.166


■ 83, 65.454,


311.166


 93, 65.454,
311.166

 13, 65.454,
311.166


 13, 65.454,
311.166

 13, 65.239,
311.096

 15, 60.419,
310.965

 18, 55.222,
310.858

 20, 48.948,
310.498

 23, 42.055,
309.989

 27, 34.883,
309.409

■ 30, 27.652,
308.813

■ 34, 20.492,
308.233

■ 37, 13.477,
307.687

■ 41, 6.643, 307.182

Harmonies

Complementary

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



13, 65.454, 311.166



39, 54.967, 124.825

Rectangle

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



13, 65.454, 311.166



13, 65.454, 1.166



13, 65.454, 131.166



13, 65.454, 181.166

Sweetspot

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



13, 65.239, 311.096



43, 25.357, 308.280



24, 31.253, 273.841



20, 17.503, 308.458



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



13, 65.239, 311.096



19, 78.715, 310.790



22, 60.162, 325.760



19, 3.653, 307.129



15, 69.845, 310.976



37, 121.966, 310.320

Inverse Universe

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



21, 45.103, 353.926



29, 54.003, 354.930



38, 61.674, 135.475



20, 3.116, 340.875



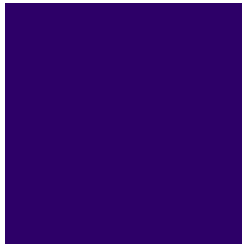
24, 48.140, 354.316



53, 82.710, 356.575

Previews

White Background



This preview shows how the CIELCh color 13, 65.454, 311.166 looks on a white background.

Color Contrast Check

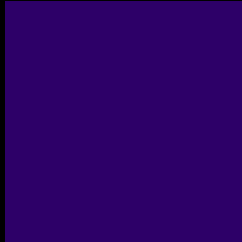
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 13, 65.454, 311.166 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

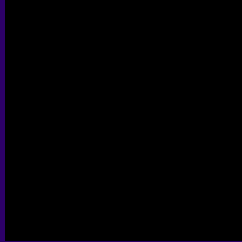
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 65.454, 311.166

Background



This preview shows how black text looks on a background with the CIELCh color 13, 65.454, 311.166.



This preview shows how white text looks on a background with the CIELCh color 13, 65.454, 311.166.

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

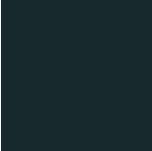
13, 65.077, 311.071

Protanopia

15, 28.727, 281.266

Deuteranopia

15, 20.760, 266.912



Tritanopia
15, 7.724, 213.913

Trichromacy



Original Color
13, 65.077, 311.071

Protanomaly
12, 44.607, 299.290

Deuteranomaly
12, 39.322, 297.551

Tritanomaly
12, 28.855, 301.196

Monochromacy



Original Color
13, 65.077, 311.071

Achromatopsia
9, 0.002, 296.813

Achromatomaly
9, 28.503, 309.798

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 65.454, 311.166 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(45, 0, 104)` looks like.

```
.text, #text, p{  
    color:rgb(45, 0, 104)  
}
```

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(45, 0, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 0, 104) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 65.454, 311.166 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(45, 0, 104) }
```

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

```
.border{ border-color:rgb(45, 0, 104) }
```

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

Here you see how a box with a 4 pixel rgb(45, 0, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 0, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 0, 104);  
box-shadow:4px 4px 4px 4px rgb(45, 0, 104)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 65.454, 311.166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 0, 104) }
```

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

```
.background{ background-color: rgb(45, 0,  
104) }
```

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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