

Converting Colors

CIELCh(37, 113.583, 312.545)

Have a look what the booklet for
CIELCh(37, 113.583, 312.545)
contains.

CIELCh(37, 113.623, 312.525)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

CIELCh(37, 113.623, 312.525)

Conversions

Conversions Part 1

Format	Color
Hex	7900E3
RGB	121, 0, 227
RGB Percent	47%, 0%, 89%
CMY	0.5271, 1.0000, 0.1113
CMYK	0.47, 1.00, 0.00, 0.11
HSL	272°, 100%, 44%
HSV	272°, 100%, 89%
XYZ	21.6264, 9.5379, 73.0901
YIQ	62.0570, -0.7510, 96.2490

Conversions

Conversions Part 2

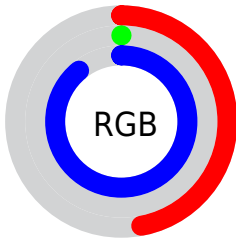
Format	Color
R_{YB}	121, 0, 227
Decimal	7930083
CIE _{Lab}	37.00, 76.80, -83.74
CIE _{LCh}	37, 113.623, 312.525
Yxy	9.5379, 0.2074, 0.0915
Android (android.graphics.Color)	4286120163 (0xFF7900E3)
YUV	62.0570, 81.3169, 51.6930
Hunter-Lab	30.8835, 70.9497, -118.6995

Details

The CIELCh color **37, 113.623, 312.525** is a dark color, and the websafe version is hex **6600CC**. The color can be described as dark washed purple. A complement of this color would be **81, 101.023, 129.279**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **55, 99.066, 315.000**, and **23, 95.571, 308.539** is the 20% darker color. If you saturate the color by 10%, you get **37, 113.496, 312.504**, and if you desaturate by 10%, it is **40, 108.983, 313.131**.

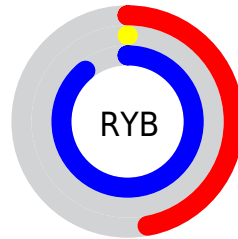
Distribution



Red (47%)

Green (0%)

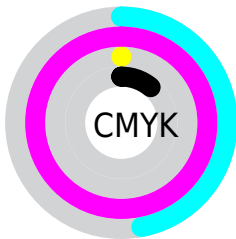
Blue (89%)



Red (47%)

Yellow (0%)

Blue (89%)

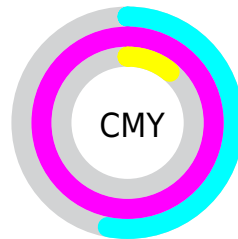


Cyan (47%)

Magenta (100%)

Yellow (0%)

Black (11%)



Cyan (53%)


Magenta (100%)


Yellow (11%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 113.623, 312.525 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 37, 113.623, 312.525 by changing the saturation by 10% instead.


 37, 113.623,
312.525


 37, 113.623,
312.525


 100, 113.623,
312.525


 27, 113.623,
312.525


 57, 113.623,
312.525


 17, 113.623,
312.525


 67, 113.623,
312.525

 7, 113.623,
312.525

 77, 113.623,
312.525

 0, 113.623,
312.525

 87, 113.623,
312.525

 97, 113.623,
312.525

■ 37, 113.623,
312.525

■ 37, 113.623,
312.525

■ 37, 113.496,
312.504

■ 40, 108.983,
313.131

■ 43, 101.536,
313.402

■ 47, 91.365,
313.334

■ 53, 79.357,
313.038

■ 58, 66.314,
312.606

■ 64, 52.826,
312.109

■ 71, 39.271,
311.594

■ 77, 25.876,

311.089

■ 84, 12.768,
310.609

Harmonies

Complementary

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



37, 113.623, 312.525



81, 101.023, 129.279

Rectangle

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



37, 113.623, 312.525



37, 113.623, 2.525



37, 113.623, 132.525



37, 113.623, 182.525

Sweetspot

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



37, 113.496, 312.504



79, 43.225, 311.604



48, 69.209, 286.291



39, 29.613, 311.823



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



37, 113.496, 312.504



42, 124.172, 312.430



54, 104.315, 328.914



44, 7.187, 310.583



28, 93.783, 312.693



4, 33.705, 311.524

Inverse Universe

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



49, 77.226, 5.757



55, 84.427, 6.098



79, 109.274, 136.121



44, 5.625, 346.185



38, 63.946, 4.897



6, 26.137, 357.083

Previews

White Background



This preview shows how the CIE LCh color 37, 113.623, 312.525 looks on a white background.

Color Contrast Check

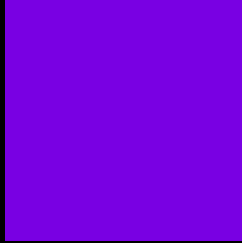
Large Text (above 18pt) WCAG AA ✓ Pass

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 37, 113.623, 312.525 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

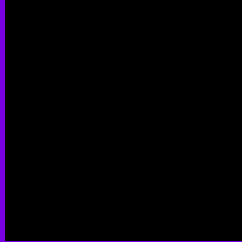
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 113.623, 312.525

Background



This preview shows how black text looks on a background with the CIELCh color 37, 113.623, 312.525.



This preview shows how white text looks on a background with the CIELCh color 37, 113.623, 312.525.

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

37, 113.623, 312.525

Protanopia

38, 58.004, 286.087

Deuteranopia

38, 41.236, 273.355



Tritanopia
38, 4.331, 285.447

Trichromacy



Original Color
37, 113.623, 312.525



Protanomaly
32, 86.974, 301.308



Deuteranomaly
32, 76.383, 299.668



Tritanomaly
33, 55.284, 311.878

Monochromacy



Original Color
37, 113.623, 312.525



Achromatopsia
26, 0.004, 296.813



Achromatomaly
26, 54.039, 313.145

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 113.623, 312.525 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(121, 0, 227)` looks like.

```
.text, #text, p{  
  color:rgb(121, 0, 227)  
}
```

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(121, 0, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 0, 227) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 113.623, 312.525 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(121, 0, 227) }
```

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

```
.border{ border-color:rgb(121, 0, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 0, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 0, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 0, 227);  
box-shadow:4px 4px 4px 4px rgb(121, 0,  
227) }
```

Background

The CSS property to change the background color of an element to CIELCh 37, 113.623, 312.525 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 0, 227) }
```

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

```
.background{ background-color: rgb(121, 0,  
227) }
```

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