

Converting Colors

CIELCh(21, 66.733, 312.440)

Have a look what the booklet for
CIELCh(21, 66.733, 312.440)
contains.

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Color

CIELCh(21, 66.733, 312.440)

Conversions

Conversions Part 1

Format	Color
Hex	47127D
RGB	71, 18, 125
RGB Percent	28%, 7%, 49%
CMY	0.7219, 0.9297, 0.5101
CMYK	0.43, 0.86, 0.00, 0.51
HSL	270°, 75%, 28%
HSV	270°, 86%, 49%
XYZ	6.5044, 3.2451, 19.6598
YIQ	46.0450, -2.7590, 44.5130

Conversions

Conversions Part 2

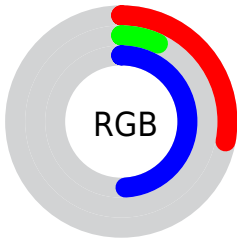
Format	Color
R_{YB}	71, 18, 125
Decimal	4657789
CIE _{Lab}	21.00, 45.03, -49.25
CIE _{LCh}	21, 66.733, 312.440
Yxy	3.2451, 0.2212, 0.1103
Android (android.graphics.Color)	4282847869 (0xFF47127D)
YUV	46.0450, 38.9248, 21.8855
Hunter-Lab	18.0142, 32.9260, -52.0960




Details

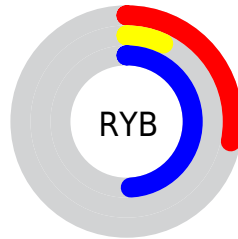
The CIELCh color **21, 66.733, 312.440** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **47, 58.929, 126.434**, and the grayscale version is **19, 0.003, 296.813**.




A 20% lighter version of the original color is **41, 67.037, 312.383**, and **6, 52.495, 307.842** is the 20% darker color. If you saturate the color by 10%, you get **19, 71.364, 312.222**, and if you desaturate by 10%, it is **24, 60.594, 312.374**.

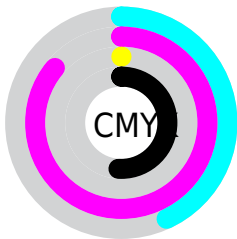
Distribution







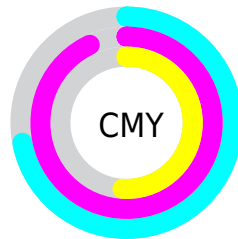
-  Red (28%)
-  Green (7%)
-  Blue (49%)






-  Red (28%)
-  Yellow (7%)
-  Blue (49%)



-  Cyan (43%)
-  Magenta (86%)
-  Yellow (0%)
-  Black (51%)





-  Cyan (72%)
-  Magenta (93%)
-  Yellow (51%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 66.733, 312.440 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 21, 66.733, 312.440 by changing the saturation by 10% instead.

 21, 66.733,
312.440


 21, 66.733,
312.440

 100, 66.733,
312.440


 11, 66.733,
312.440


 41, 66.733,
312.440


 1, 66.733, 312.440

 51, 66.733,
312.440

 0, 66.733, 312.440

 61, 66.733,
312.440

 71, 66.733,
312.440

 81, 66.733,
312.440

 91, 66.733,

312.440

■ 21, 66.733,
312.440

■ 21, 66.733,
312.440

■ 19, 71.364,
312.222

■ 24, 60.594,
312.374

■ 18, 73.366,
312.171

■ 27, 53.292,
312.075

■ 30, 45.317,
311.637

■ 34, 37.034,
311.131

■ 38, 28.682,
310.603

■ 42, 20.409,
310.085

■ 46, 12.295,
309.592

■ 50, 4.386, 309.127

■ 54, 3.301, 128.758

Harmonies

Complementary

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



21, 66.733, 312.440



47, 58.929, 126.434

Rectangle

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



21, 66.733, 312.440



21, 66.733, 2.440



21, 66.733, 132.440



21, 66.733, 182.440

Sweetspot

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



21, 66.733, 312.441



54, 25.762, 310.134



30, 34.334, 274.681



26, 17.433, 310.278



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



21, 66.733, 312.441



25, 89.360, 311.898



30, 64.501, 327.472



24, 4.310, 309.283



18, 73.378, 312.170



40, 124.220, 311.576

Inverse Universe

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



27, 47.596, 355.520



35, 60.787, 1.128



45, 66.154, 136.783



24, 3.483, 344.071



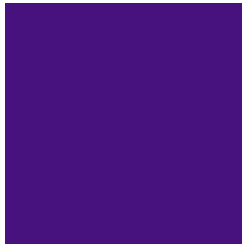
26, 50.162, 0.036



54, 84.042, 2.468

Previews

White Background



This preview shows how the CIELCh color 21, 66.733, 312.440 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 21, 66.733, 312.440 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

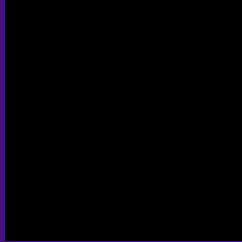
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 66.733, 312.440

Background



This preview shows how black text looks on a background with the CIELCh color 21, 66.733, 312.440.



This preview shows how white text looks on a background with the CIELCh color 21, 66.733, 312.440.

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

21, 66.733, 312.440

Protanopia

21, 38.017, 284.265

Deuteranopia

22, 26.624, 269.348



Tritanopia
22, 3.274, 324.748

Trichromacy



Original Color
21, 66.733, 312.440

Protanomaly
19, 50.531, 297.786

Deuteranomaly
19, 42.070, 294.430

Tritanomaly
20, 28.945, 312.567

Monochromacy



Original Color
21, 66.733, 312.440

Achromatopsia
19, 0.004, 296.813

Achromatomaly
18, 27.707, 311.035

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 66.733, 312.440 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(71, 18, 125)` looks like.

```
.text, #text, p{  
    color:rgb(71, 18, 125)  
}
```

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(71, 18, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 18, 125) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 66.733, 312.440 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(71, 18, 125) }
```

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

```
.border{ border-color:rgb(71, 18, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 18, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 18, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 18, 125);  
box-shadow:4px 4px 4px 4px rgb(71, 18,  
125) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 66.733, 312.440 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 18, 125) }
```

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

```
.background{ background-color: rgb(71, 18,  
125) }
```

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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