

Converting Colors

CIELCh(21, 78.881, 312.940)

Have a look what the booklet for
CIELCh(21, 78.881, 312.940)
contains.

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Color

CIELCh(21, 78.364, 312.845)

Conversions

Conversions Part 1

Format	Color
Hex	49008A
RGB	73, 0, 138
RGB Percent	29%, 0%, 54%
CMY	0.7140, 1.0000, 0.4591
CMYK	0.47, 1.00, 0.00, 0.46
HSL	272°, 100%, 27%
HSV	272°, 100%, 54%
XYZ	7.3244, 3.2451, 24.2609
YIQ	37.5590, -0.7900, 58.3940

Conversions

Conversions Part 2

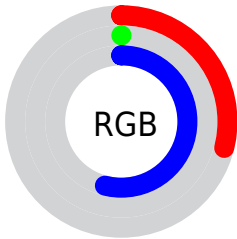
Format	Color
R_{YB}	73, 0, 138
Decimal	4784266
CIE _{Lab}	21.00, 53.29, -57.46
CIE _{LCh}	21, 78.364, 312.845
Yxy	3.2451, 0.2103, 0.0932
Android (android.graphics.Color)	4282974346 (0xFF49008A)
YUV	37.5590, 49.5174, 31.0818
Hunter-Lab	18.0142, 41.0510, -67.2398

Details

The CIELCh color **21, 78.364, 312.845** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **51, 69.441, 128.575**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 78.712, 312.805**, and **7, 59.931, 307.257** is the 20% darker color. If you saturate the color by 10%, you get **21, 78.342, 312.840**, and if you desaturate by 10%, it is **23, 74.053, 313.177**.

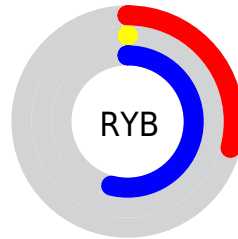
Distribution



Red (29%)

Green (0%)

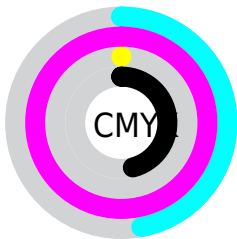
Blue (54%)



Red (29%)

Yellow (0%)

Blue (54%)

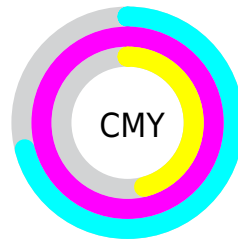


Cyan (47%)

Magenta (100%)

Yellow (0%)

Black (46%)



Cyan (71%)


Magenta (100%)


Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 78.364, 312.845 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, 78.364, 312.845 by changing the saturation by 10% instead.

 21, 78.364,
312.845


 21, 78.364,
312.845

 100, 78.364,
312.845


 11, 78.364,
312.845


 41, 78.364,
312.845


 1, 78.364, 312.845

 51, 78.364,
312.845

 0, 78.364, 312.845

 61, 78.364,
312.845

 71, 78.364,
312.845

 81, 78.364,
312.845

 91, 78.364,

312.845

■ 21, 78.364,
312.845

■ 21, 78.364,
312.845

■ 21, 78.342,
312.840

■ 23, 74.053,
313.177

■ 26, 68.449,
313.322

■ 29, 61.252,
313.182

■ 32, 53.020,
312.853

■ 36, 44.224,
312.415

■ 40, 35.199,
311.927

■ 44, 26.161,
311.427

■ 49, 17.240,
310.940

■ 53, 8.510, 310.477

Harmonies

Complementary

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



21, 78.364, 312.845



51, 69.441, 128.575

Rectangle

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



21, 78.364, 312.845



21, 78.364, 2.845



21, 78.364, 132.845



21, 78.364, 182.845

Sweetspot

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



21, 78.342, 312.840



57, 32.311, 311.459



29, 46.153, 284.518



27, 22.037, 311.640



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



21, 78.342, 312.840



28, 94.867, 312.599



32, 72.253, 328.889



27, 4.790, 310.439



20, 76.105, 312.882



0, 2.198, 310.064

Inverse Universe

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



29, 53.548, 3.563



38, 64.643, 4.627



50, 75.491, 136.208



27, 3.760, 345.935



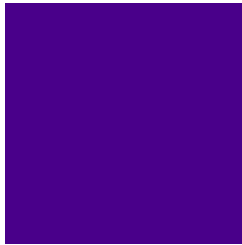
28, 52.049, 3.380



0, 1.725, 345.225

Previews

White Background



This preview shows how the CIE LCh color 21, 78.364, 312.845 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, 78.364, 312.845 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

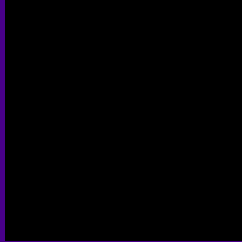
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 78.364, 312.845

Background



This preview shows how black text looks on a background with the CIELCh color 21, 78.364, 312.845.



This preview shows how white text looks on a background with the CIELCh color 21, 78.364, 312.845.

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

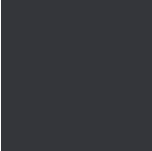
21, 78.364, 312.845

Protanopia

22, 38.504, 283.921

Deuteranopia

22, 27.200, 269.264



Tritanopia
23, 2.805, 272.314

Trichromacy



Original Color
21, 78.364, 312.845

Protanomaly
19, 58.235, 300.747

Deuteranomaly
18, 50.080, 298.509

Tritanomaly
19, 36.807, 311.621

Monochromacy



Original Color
21, 78.364, 312.845

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 35.683, 313.282

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 78.364, 312.845 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(73, 0, 138)` looks like.

```
.text, #text, p{  
    color:rgb(73, 0, 138)  
}
```

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(73, 0, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 0, 138) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 78.364, 312.845 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(73, 0, 138) }
```

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

```
.border{ border-color:rgb(73, 0, 138) }
```

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

Here you see how a box with a 4 pixel rgb(73, 0, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 0, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 0, 138);  
box-shadow:4px 4px 4px 4px rgb(73, 0, 138)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 78.364, 312.845 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 0, 138) }
```

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

```
.background{ background-color: rgb(73, 0,  
138) }
```

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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