

Converting Colors

CIELCh(21, 79.425, 312.653)

Have a look what the booklet for
CIELCh(21, 79.425, 312.653)
contains.

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Color

CIELCh(21, 78.964, 312.576)

Conversions

Conversions Part 1

Format	Color
Hex	48008B
RGB	72, 0, 139
RGB Percent	28%, 0%, 55%
CMY	0.7175, 0.9998, 0.4548
CMYK	0.48, 1.00, 0.00, 0.45
HSL	271°, 100%, 27%
HSV	271°, 100%, 55%
XYZ	7.3384, 3.2451, 24.6783
YIQ	37.3740, -1.7070, 58.4930

Conversions

Conversions Part 2

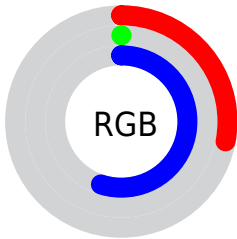
Format	Color
R_{YB}	72, 0, 139
Decimal	4718731
CIE _{Lab}	21.00, 53.42, -58.15
CIE _{LCh}	21, 78.964, 312.576
Yxy	3.2451, 0.2081, 0.0920
Android (android.graphics.Color)	4282908811 (0xFF48008B)
YUV	37.3740, 50.1016, 30.3670
Hunter-Lab	18.0142, 41.1898, -68.6135

Details

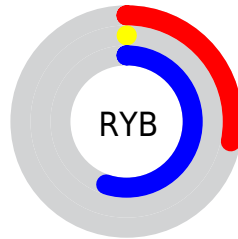
The CIELCh color **21, 78.964, 312.576** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **51, 69.607, 128.248**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 79.234, 312.493**, and **7, 60.646, 306.966** is the 20% darker color. If you saturate the color by 10%, you get **21, 78.977, 312.576**, and if you desaturate by 10%, it is **23, 74.620, 312.905**.

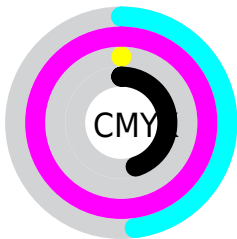
Distribution



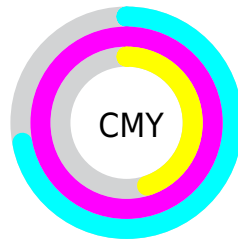
- Red (28%)
- Green (0%)
- Blue (55%)



- Red (28%)
- Yellow (0%)
- Blue (55%)



- Cyan (48%)
- Magenta (100%)
- Yellow (0%)
- Black (45%)





- Cyan (72%)
- Magenta (100%)
- Yellow (45%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 78.964, 312.576 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, 78.964, 312.576 by changing the saturation by 10% instead.

 21, 78.964,
312.576


 21, 78.964,
312.576

 100, 78.964,
312.576


 11, 78.964,
312.576


 41, 78.964,
312.576


 1, 78.964, 312.576

 51, 78.964,
312.576

 0, 78.964, 312.576

 61, 78.964,
312.576

 71, 78.964,
312.576

 81, 78.964,
312.576

 91, 78.964,

312.576

■ 21, 78.964,
312.576

■ 21, 78.964,
312.576

■ 21, 78.977,
312.576

■ 23, 74.620,
312.905

■ 26, 68.929,
313.037

■ 29, 61.638,
312.880

■ 32, 53.318,
312.535

■ 36, 44.443,
312.082

■ 41, 35.352,
311.582

■ 45, 26.259,
311.072

■ 49, 17.292,
310.578

■ 54, 8.522, 310.109

Harmonies

Complementary

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



21, 78.964, 312.576



51, 69.607, 128.248

Rectangle

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



21, 78.964, 312.576



21, 78.964, 2.576



21, 78.964, 132.576



21, 78.964, 182.576

Sweetspot

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



21, 78.964, 312.577



57, 32.631, 311.107



29, 46.439, 284.542



28, 22.523, 311.296



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



21, 78.964, 312.577



29, 96.103, 312.331



32, 72.663, 328.889



27, 4.779, 310.072



20, 76.276, 312.626



0, 2.193, 309.693

Inverse Universe

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



29, 53.918, 2.586



39, 65.385, 3.649



50, 75.922, 136.208



27, 3.787, 345.332



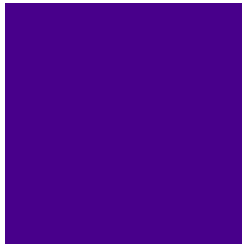
28, 52.119, 2.383



0, 1.738, 344.629

Previews

White Background



This preview shows how the CIE LCh color 21, 78.964, 312.576 looks on a white background.

Color Contrast Check

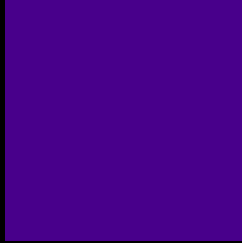
Large Text (above 18pt) WCAG AA ✓ Pass

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, 78.964, 312.576 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

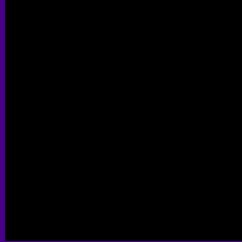
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 78.964, 312.576

Background



This preview shows how black text looks on a background with the CIELCh color 21, 78.964, 312.576.



This preview shows how white text looks on a background with the CIELCh color 21, 78.964, 312.576.

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, 78.964, 312.576

Protanopia

22, 38.504, 283.921

Deuteranopia

22, 27.744, 270.717



Tritanopia
22, 2.964, 264.176

Trichromacy



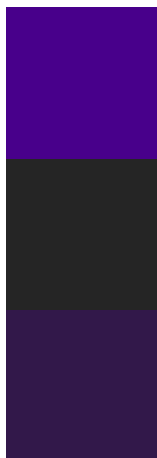
Original Color
21, 78.964, 312.576

Protanomaly
19, 58.266, 300.609

Deuteranomaly
18, 50.819, 298.784

Tritanomaly
19, 36.778, 311.062

Monochromacy



Original Color
21, 78.964, 312.576

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 35.665, 312.694

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 78.964, 312.576 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(72, 0, 139)` looks like.

```
.text, #text, p{  
    color:rgb(72, 0, 139)  
}
```

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(72, 0, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 0, 139) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 78.964, 312.576 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(72, 0, 139) }
```

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

```
.border{ border-color:rgb(72, 0, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 0, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 0, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 0, 139);  
box-shadow:4px 4px 4px 4px rgb(72, 0, 139)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 78.964, 312.576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 0, 139) }
```

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

```
.background{ background-color: rgb(72, 0,  
139) }
```

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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