

Converting Colors

CIELCh(21, 46.498, 312.249)

Have a look what the booklet for
CIELCh(21, 46.498, 312.249)
contains.

CIELCh(21, 46.458, 312.019)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(21, 46.458, 312.019)

Conversions

Conversions Part 1

Format	Color
Hex	432166
RGB	67, 33, 102
RGB Percent	26%, 13%, 40%
CMY	0.7371, 0.8704, 0.5998
CMYK	0.34, 0.68, 0.00, 0.60
HSL	270°, 51%, 26%
HSV	270°, 68%, 40%
XYZ	5.2634, 3.2451, 12.9311
YIQ	51.0320, -1.8850, 28.6670

Conversions

Conversions Part 2

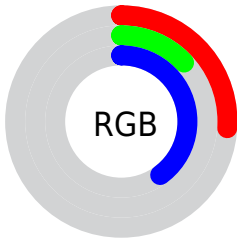
Format	Color
R_{YB}	67, 33, 102
Decimal	4399462
CIE _{Lab}	21.00, 31.10, -34.51
CIE _{LCh}	21, 46.458, 312.019
Yxy	3.2451, 0.2455, 0.1514
Android (android.graphics.Color)	4282589542 (0xFF432166)
YUV	51.0320, 25.1272, 14.0039
Hunter-Lab	18.0142, 20.6291, -29.9499

Details

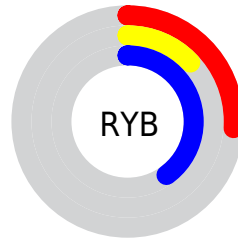
The CIELCh color **21, 46.458, 312.019** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **39, 42.119, 126.108**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 46.418, 311.869**, and **4, 38.424, 309.248** is the 20% darker color. If you saturate the color by 10%, you get **18, 52.623, 312.310**, and if you desaturate by 10%, it is **24, 39.721, 311.593**.

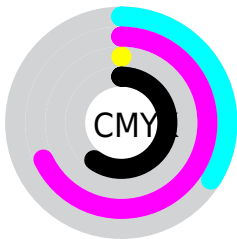
Distribution



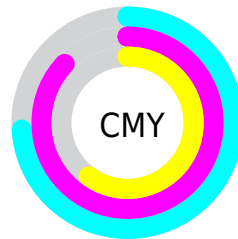
- Red (26%)
- Green (13%)
- Blue (40%)



- Red (26%)
- Yellow (13%)
- Blue (40%)



- Cyan (34%)
- Magenta (68%)
- Yellow (0%)
- Black (60%)





- Cyan (74%)
- Magenta (87%)
- Yellow (60%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 46.458, 312.019 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, 46.458, 312.019 by changing the saturation by 10% instead.

 21, 46.458,
312.019


 21, 46.458,
312.019

 100, 46.458,
312.019


 11, 46.458,
312.019


 41, 46.458,
312.019


 1, 46.458, 312.019

 51, 46.458,
312.019

 0, 46.458, 312.019

 61, 46.458,
312.019

 71, 46.458,
312.019

 81, 46.458,
312.019

 91, 46.458,

312.019

■ 21, 46.458,
312.019

■ 21, 46.458,
312.019

■ 18, 52.623,
312.310

■ 24, 39.721,
311.593

■ 16, 57.816,
312.376

■ 27, 32.716,
311.097

■ 14, 62.257,
312.327

■ 30, 25.642,
310.579

■ 14, 63.418,
312.368

■ 34, 18.624,
310.067

■ 37, 11.733,
309.580

■ 41, 5.008, 309.120

■ 44, 1.534, 128.769

■ 47, 7.887, 128.360

■ 51, 14.052,
128.024

Harmonies

Complementary

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



21, 46.458, 312.019



39, 42.119, 126.108

Rectangle

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



21, 46.458, 312.019



21, 46.458, 2.019



21, 46.458, 132.019



21, 46.458, 182.019

Sweetspot

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



21, 46.458, 312.019



47, 16.579, 309.721



28, 23.371, 267.251



22, 11.248, 309.816



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



21, 46.458, 312.019



24, 67.186, 312.381



26, 47.654, 327.039



19, 3.694, 309.179



16, 69.009, 312.214



39, 120.439, 311.543

Inverse Universe

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



25, 35.121, 350.841



30, 48.578, 354.190



38, 48.188, 138.575



20, 2.993, 343.904



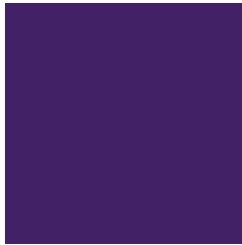
23, 47.269, 359.408



52, 81.504, 2.113

Previews

White Background



This preview shows how the CIELCh color 21, 46.458, 312.019 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 CIE LCh color 21, 46.458, 312.019 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

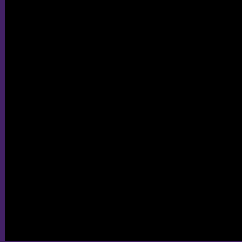
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 46.458, 312.019

Background



This preview shows how black text looks on a background with the CIELCh color 21, 46.458, 312.019.



This preview shows how white text looks on a background with the CIELCh color 21, 46.458, 312.019.

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, 46.458, 312.019

Protanopia

21, 38.083, 284.674

Deuteranopia

21, 27.736, 272.282



Tritanopia
21, 4.610, 344.631

Trichromacy



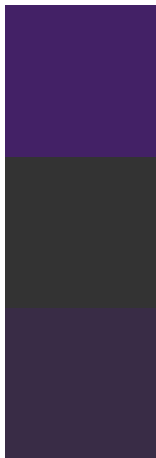
Original Color
21, 46.458, 312.019

Protanomaly
20, 41.293, 292.888

Deuteranomaly
20, 34.083, 288.593

Tritanomaly
21, 20.374, 315.421

Monochromacy



Original Color
21, 46.458, 312.019

Achromatopsia
21, 0.004, 296.813

Achromatomaly
20, 18.501, 310.690

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 46.458, 312.019 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(67, 33, 102)` looks like.

```
.text, #text, p{  
    color:rgb(67, 33, 102)  
}
```

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(67, 33, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 33, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 46.458, 312.019 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(67, 33, 102) }
```

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

```
.border{ border-color:rgb(67, 33, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 33, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 33, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 33, 102);  
box-shadow:4px 4px 4px 4px rgb(67, 33,  
102) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 46.458, 312.019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 33, 102) }
```

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

```
.background{ background-color: rgb(67, 33,  
102) }
```

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