

Converting Colors

CIELCh(21, 12.728, 7.812)

Have a look what the booklet for
CIELCh(21, 12.728, 7.812) contains.

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Color

CIELCh(21, 12.420, 9.939)

Conversions

Conversions Part 1

Format	Color
Hex	452C30
RGB	69, 44, 48
RGB Percent	27%, 17%, 19%
CMY	0.7306, 0.8286, 0.8129
CMYK	0.00, 0.36, 0.31, 0.73
HSL	350°, 22%, 22%
HSV	350°, 36%, 27%
XYZ	3.8500, 3.2451, 3.1890
YIQ	51.9310, 13.6160, 6.5440

Conversions

Conversions Part 2

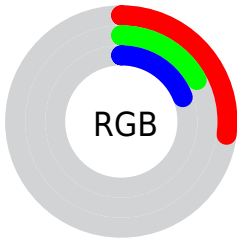
Format	Color
RYB	69, 44, 48
Decimal	4533296
CIELab	21.00, 12.23, 2.14
CIELCh	21, 12.420, 9.939
Yxy	3.2451, 0.3744, 0.3155
Android (android.graphics.Color)	4282723376 (0xFF452C30)
YUV	51.9310, -1.9380, 14.9695
Hunter-Lab	18.0142, 6.6244, 2.1140

Details

The CIELCh color **21, 12.420, 9.939** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **27, 10.668, 183.491**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 12.344, 9.950**, and **2, 10.608, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **19, 16.129, 11.422**, and if you desaturate by 10%, it is **23, 8.807, 8.712**.

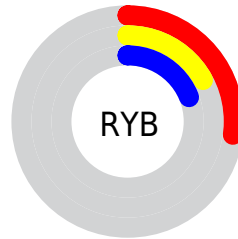
Distribution



Red (27%)

Green (17%)

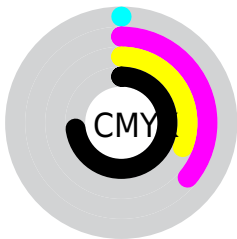
Blue (19%)



Red (27%)

Yellow (17%)

Blue (19%)

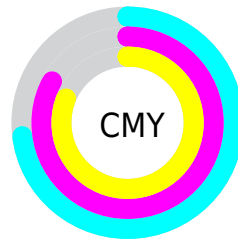


Cyan (0%)

Magenta (36%)

Yellow (31%)

Black (73%)



Cyan (73%)

Magenta (83%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 12.420, 9.939 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, 12.420, 9.939 by changing the saturation by 10% instead.

■ 21, 12.420, 9.939 ■ 21, 12.420, 9.939

■ 100, 12.420, 9.939 ■ 11, 12.420, 9.939

■ 41, 12.420, 9.939 ■ 1, 12.420, 9.939

■ 51, 12.420, 9.939 ■ 0, 12.420, 9.939

■ 61, 12.420, 9.939

■ 71, 12.420, 9.939

■ 81, 12.420, 9.939

■ 91, 12.420, 9.939

■ 21, 12.420, 9.939 ■ 21, 12.420, 9.939

■ 19, 16.129, 11.422 ■ 23, 8.807, 8.712

17, 19.871, 13.226

25, 5.334, 7.666

15, 23.554, 15.448

28, 2.021, 6.715

14, 27.071, 18.191

30, 1.126, 186.295

13, 30.237, 21.126

32, 4.108, 185.475

12, 33.149, 22.360

35, 6.935, 184.865

11, 34.216, 22.325

37, 9.616, 184.333

39, 12.165,
183.857

42, 14.593,
183.427

Harmonies

Complementary

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



21, 12.420, 9.939



27, 10.668, 183.491

Rectangle

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



21, 12.420, 9.939



21, 12.420, 59.939



21, 12.420, 189.939



21, 12.420, 239.939

Sweetspot

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



21, 12.419, 9.943



35, 4.403, 7.199



21, 18.982, 321.253



17, 2.988, 7.250



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



21, 12.419, 9.943



26, 19.010, 11.330



23, 10.135, 53.313



12, 1.726, 6.919



18, 45.243, 28.203



47, 87.245, 32.978

Inverse Universe

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



21, 12.419, 9.943



26, 19.010, 11.330



24, 8.452, 239.477



12, 1.726, 6.919



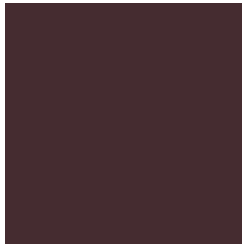
18, 45.243, 28.203



47, 87.245, 32.978

Previews

White Background



This preview shows how the CIE LCh color 21, 12.420, 9.939 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, 12.420, 9.939 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

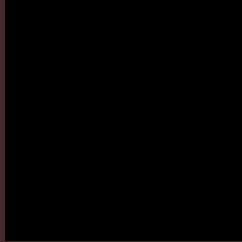
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 12.420, 9.939

Background



This preview shows how black text looks on a background with the CIELCh color 21, 12.420, 9.939.

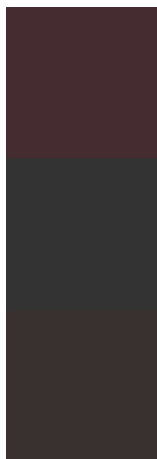


This preview shows how white text looks on a background with the CIELCh color 21, 12.420, 9.939.

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, 12.420, 9.939

Protanopia

21, 0.678, 290.370

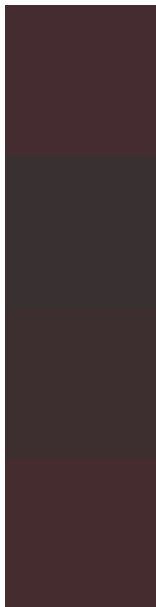
Deuteranopia

21, 4.099, 39.180



Tritanopia
21, 12.382, 13.002

Trichromacy



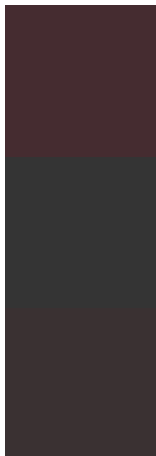
Original Color
21, 12.420, 9.939

Protanomaly
21, 4.478, 2.844

Deuteranomaly
21, 6.820, 20.821

Tritanomaly
21, 12.382, 13.002

Monochromacy



Original Color
21, 12.420, 9.939

Achromatopsia
22, 0.004, 296.813

Achromatomaly
21, 4.333, 11.374

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 12.420, 9.939 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(69, 44, 48)` looks like.

```
.text, #text, p{  
    color:rgb(69, 44, 48)  
}
```

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(69, 44, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 44, 48) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 12.420, 9.939 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(69, 44, 48) }
```

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

```
.border{ border-color:rgb(69, 44, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 44, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 44, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 44, 48);  
box-shadow:4px 4px 4px 4px rgb(69, 44, 48)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 12.420, 9.939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 44, 48) }
```

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

```
.background{ background-color: rgb(69, 44,  
48) }
```

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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