

Converting Colors

CIELCh(20, 17.843, 299.507)

Have a look what the booklet for
CIELCh(20, 17.843, 299.507)
contains.

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Color

CIELCh(20, 17.839, 299.239)

Conversions

Conversions Part 1

Format	Color
Hex	312D47
RGB	49, 45, 71
RGB Percent	19%, 18%, 28%
CMY	0.8077, 0.8234, 0.7214
CMYK	0.31, 0.37, 0.00, 0.72
HSL	249°, 22%, 23%
HSV	249°, 37%, 28%
XYZ	3.3470, 2.9891, 6.3686
YIQ	49.1600, -5.9620, 8.9340

Conversions

Conversions Part 2

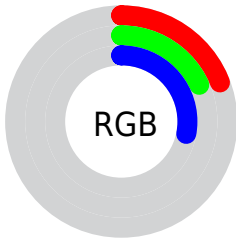
Format	Color
RYB	49, 45, 71
Decimal	3222855
CIELab	20.00, 8.71, -15.57
CIELCh	20, 17.839, 299.239
Yxy	2.9891, 0.2634, 0.2353
Android (android.graphics.Color)	4281412935 (0xFF312D47)
YUV	49.1600, 10.7671, -0.1403
Hunter-Lab	17.2889, 4.3006, -9.7381

Details

The CIELCh color **20, 17.839, 299.239** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **29, 16.524, 113.793**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 17.848, 298.850**, and **1, 15.426, 295.453** is the 20% darker color. If you saturate the color by 10%, you get **17, 23.107, 300.330**, and if you desaturate by 10%, it is **23, 12.738, 298.266**.

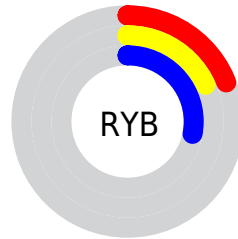
Distribution



 Red (19%)

 Green (18%)

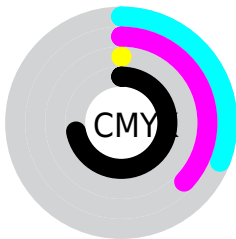
 Blue (28%)



 Red (19%)

 Yellow (18%)

 Blue (28%)

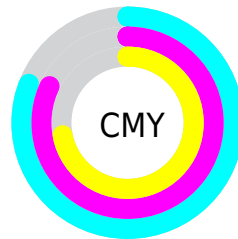


 Cyan (31%)

 Magenta (37%)

 Yellow (0%)

 Black (72%)



 Cyan (81%)

 Magenta (82%)

 Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 17.839, 299.239 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 20, 17.839, 299.239 by changing the saturation by 10% instead.

■ 20, 17.839,
299.239

■ 20, 17.839,
299.239

■ 100, 17.839,
299.239

■ 10, 17.839,
299.239

■ 40, 17.839,
299.239

■ 0, 17.839, 299.239

■ 50, 17.839,
299.239

■ 60, 17.839,
299.239

■ 70, 17.839,
299.239

■ 80, 17.839,
299.239

■ 90, 17.839,

299.239

■ 20, 17.839,
299.239

■ 20, 17.839,
299.239

■ 17, 23.107,
300.330

■ 23, 12.738,
298.266

■ 15, 28.517,
301.530

■ 26, 7.812, 297.407

■ 12, 33.999,
302.809

■ 28, 3.055, 296.655

■ 31, 1.539, 115.994

■ 9, 39.404, 304.102

■ 34, 5.980, 115.422

■ 7, 44.352, 305.210

■ 37, 10.277,
114.922

■ 5, 48.538, 305.866

■ 5, 49.900, 306.064

■ 39, 14.439,
114.485

■ 42, 18.473,
114.104

■ 45, 22.388,
113.772

Harmonies

Complementary

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



20, 17.839, 299.239



29, 16.524, 113.793

Rectangle

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



20, 17.839, 299.239



20, 17.839, 349.239



20, 17.839, 119.239



20, 17.839, 169.239

Sweetspot

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



20, 17.838, 299.239



35, 6.346, 297.005



27, 9.049, 214.534



16, 4.205, 297.042



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



20, 17.838, 299.239



24, 26.946, 300.227



21, 18.917, 315.538



13, 2.597, 296.797



9, 66.053, 307.277



29, 121.450, 306.842

Inverse Universe

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



22, 18.440, 330.969



28, 27.221, 331.488



28, 18.367, 132.606



13, 2.807, 329.394



21, 51.716, 334.997



52, 93.684, 335.591

Previews

White Background



This preview shows how the CIE LCh color 20, 17.839, 299.239 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 20, 17.839, 299.239 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 20, 17.839, 299.239

Background



This preview shows how black text looks on a background with the CIELCh color 20, 17.839, 299.239.



This preview shows how white text looks on a background with the CIELCh color 20, 17.839, 299.239.

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

20, 17.839, 299.239

Protanopia

20, 17.171, 283.035

Deuteranopia

20, 15.210, 280.820



Tritanopia
20, 3.219, 257.165

Trichromacy



Original Color
20, 17.839, 299.239

Protanomaly
20, 17.029, 289.000

Deuteranomaly
20, 15.689, 288.185

Tritanomaly
20, 8.192, 286.152

Monochromacy



Original Color
20, 17.839, 299.239

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 6.149, 295.718

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 17.839, 299.239 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(49, 45, 71)` looks like.

```
.text, #text, p{  
    color:rgb(49, 45, 71)  
}
```

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(49, 45, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 45, 71) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 17.839, 299.239 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(49, 45, 71) }
```

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

```
.border{ border-color:rgb(49, 45, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 45, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 45, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 45, 71);  
box-shadow:4px 4px 4px 4px rgb(49, 45, 71)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 17.839, 299.239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 45, 71) }
```

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

```
.background{ background-color: rgb(49, 45,  
71) }
```

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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