

Converting Colors

CIELCh(20, 99.403, 306.418)

Have a look what the booklet for
CIELCh(20, 99.403, 306.418)
contains.

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Color

CIELCh(20, 99.463, 306.381)

Conversions

Conversions Part 1

Format	Color
Hex	0400AC
RGB	4, 0, 172
RGB Percent	2%, 0%, 67%
CMY	0.9844, 1.0000, 0.3264
CMYK	0.98, 1.00, 0.00, 0.33
HSL	241°, 100%, 34%
HSV	241°, 100%, 67%
XYZ	7.4696, 2.9891, 39.0905
YIQ	20.8040, -52.8280, 54.3400

Conversions

Conversions Part 2

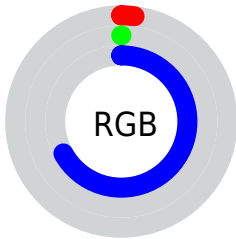
Format	Color
RYB	4, 0, 172
Decimal	262316
CIELab	20.00, 59.00, -80.08
CIELCh	20, 99.463, 306.381
Yxy	2.9891, 0.1508, 0.0603
Android (android.graphics.Color)	4278452396 (0xFF0400AC)
YUV	20.8040, 74.5396, -14.7371
Hunter-Lab	17.2889, 46.8650, -121.9537

Details

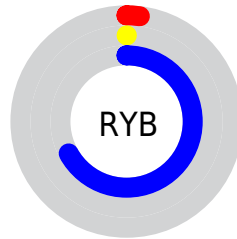
The CIELCh color **20, 99.463, 306.381** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **68, 72.103, 104.279**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **40, 99.657, 306.447**, and **11, 75.718, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 99.390, 306.362**, and if you desaturate by 10%, it is **22, 93.986, 305.389**.

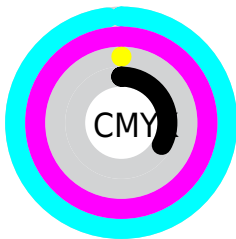
Distribution



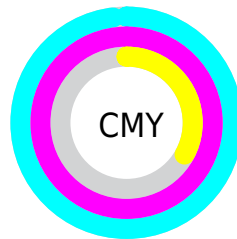
- Red (2%)
- Green (0%)
- Blue (67%)



- Red (2%)
- Yellow (0%)
- Blue (67%)



- Cyan (98%)
- Magenta (100%)
- Yellow (0%)
- Black (33%)





- Cyan (98%)
- Magenta (100%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 99.463, 306.381 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, 99.463, 306.381 by changing the saturation by 10% instead.

 20, 99.463,
306.381


 20, 99.463,
306.381


 100, 99.463,
306.381


 10, 99.463,
306.381


 40, 99.463,
306.381

 0, 99.463, 306.381

 50, 99.463,
306.381

 60, 99.463,
306.381

 70, 99.463,
306.381

 80, 99.463,
306.381

 90, 99.463,

306.381

■ 20, 99.463,
306.381

■ 20, 99.463,
306.381

■ 20, 99.390,
306.362

■ 22, 93.986,
305.389

■ 25, 85.646,
303.894

■ 30, 75.035,
301.960

■ 35, 63.547,
299.897

■ 41, 52.001,
297.917

■ 47, 40.755,
296.127

■ 52, 29.931,
294.562

■ 58, 19.545,
293.217

■ 64, 9.581, 292.072

Harmonies

Complementary

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



20, 99.463, 306.381



68, 72.103, 104.279

Rectangle

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



20, 99.463, 306.381



20, 99.463, 356.381



20, 99.463, 126.381



20, 99.463, 176.381

Sweetspot

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



20, 99.390, 306.362



67, 37.243, 294.641



63, 36.405, 198.998



32, 25.595, 295.256



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



20, 99.390, 306.362



28, 121.387, 306.341



27, 92.412, 312.344



33, 5.459, 292.000



17, 90.142, 306.375



1, 11.350, 290.922

Inverse Universe

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



41, 84.405, 329.169



53, 103.017, 329.186



63, 81.488, 128.497



34, 6.488, 325.548



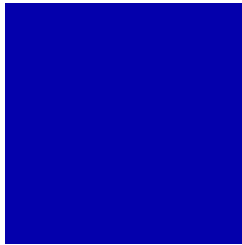
35, 76.583, 329.158



2, 13.538, 325.362

Previews

White Background



This preview shows how the CIELCh color 20, 99.463, 306.381 looks on a white background.

Color Contrast Check

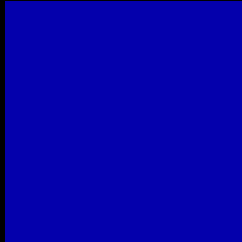
Large Text (above 18pt) WCAG AA ✓ Pass

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, 99.463, 306.381 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

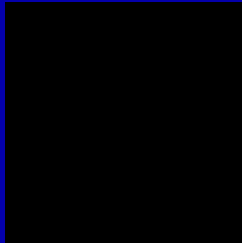
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 99.463, 306.381

Background



This preview shows how black text looks on a background with the CIELCh color 20, 99.463, 306.381.



This preview shows how white text looks on a background with the CIELCh color 20, 99.463, 306.381.

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, 99.494, 306.362

Protanopia

21, 37.400, 283.790

Deuteranopia

21, 25.533, 267.301



Tritanopia
21, 17.145, 201.057

Trichromacy



Original Color
20, 99.494, 306.362

Protanomaly
18, 64.752, 299.800

Deuteranomaly
18, 57.496, 297.794

Tritanomaly
17, 44.162, 292.448

Monochromacy



Original Color
20, 99.494, 306.362

Achromatopsia
7, 0.002, 296.812

Achromatomaly
8, 45.492, 303.202

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 99.463, 306.381 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(4, 0, 172)` looks like.

```
.text, #text, p{  
    color:rgb(4, 0, 172)  
}
```

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(4, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(4, 0, 172) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 99.463, 306.381 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(4, 0, 172) }
```

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

```
.border{ border-color:rgb(4, 0, 172) }
```

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

Here you see how a box with a 4 pixel rgb(4, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(4, 0, 172); -webkit-box-shadow:4px  
4px 4px 4px rgb(4, 0, 172); box-shadow:4px  
4px 4px 4px rgb(4, 0, 172) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 99.463, 306.381 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(4, 0, 172) }
```

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

```
.background{ background-color: rgb(4, 0,  
172) }
```

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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