

Converting Colors

CIELCh(20, 99.859, 306.505)

Have a look what the booklet for
CIELCh(20, 99.859, 306.505)
contains.

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Color

CIELCh(20, 99.433, 306.399)

Conversions

Conversions Part 1

Format	Color
Hex	0500AC
RGB	5, 0, 172
RGB Percent	2%, 0%, 67%
CMY	0.9818, 1.0000, 0.3267
CMYK	0.97, 1.00, 0.00, 0.33
HSL	242°, 100%, 34%
HSV	242°, 100%, 67%
XYZ	7.4704, 2.9891, 39.0553
YIQ	21.1030, -52.2320, 54.5520

Conversions

Conversions Part 2

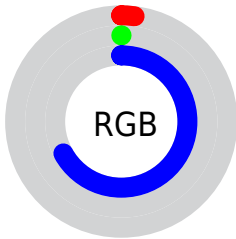
Format	Color
R_{YB}	5, 0, 172
Decimal	327852
CIE _{Lab}	20.00, 59.00, -80.03
CIE _{LCh}	20, 99.433, 306.399
Yxy	2.9891, 0.1509, 0.0604
Android (android.graphics.Color)	4278517932 (0xFF0500AC)
YUV	21.1030, 74.3922, -14.1223
Hunter-Lab	17.2889, 46.8730, -121.8329

Details

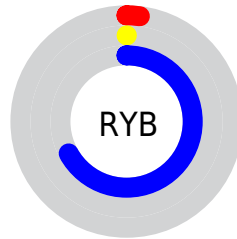
The CIELCh color **20, 99.433, 306.399** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **68, 72.092, 104.516**, and the grayscale version is **6, 0.002, 296.812**.

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, 99.340, 306.374**, and if you desaturate by 10%, it is **22, 93.932, 305.410**.

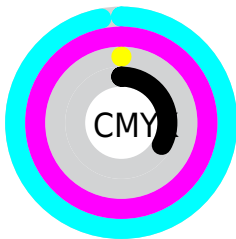
Distribution



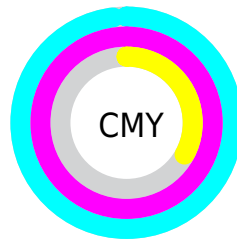
- Red (2%)
- Green (0%)
- Blue (67%)



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



- Cyan (97%)
- Magenta (100%)
- Yellow (0%)
- Black (33%)





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


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 99.433, 306.399 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, 99.433, 306.399 by changing the saturation by 10% instead.

 20, 99.433,
306.399


 20, 99.433,
306.399


 100, 99.433,
306.399


 10, 99.433,
306.399


 40, 99.433,
306.399

 0, 99.433, 306.399

 50, 99.433,
306.399

 60, 99.433,
306.399

 70, 99.433,
306.399

 80, 99.433,
306.399

 90, 99.433,

306.399

■ 20, 99.433,
306.399

■ 20, 99.433,
306.399

■ 20, 99.340,
306.374

■ 22, 93.932,
305.410

■ 25, 85.595,
303.932

■ 30, 74.994,
302.019

■ 35, 63.519,
299.976

■ 41, 51.981,
298.014

■ 47, 40.742,
296.240

■ 52, 29.922,
294.688

■ 58, 19.540,
293.354

■ 64, 9.578, 292.217

Harmonies

Complementary

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



20, 99.433, 306.399



68, 72.092, 104.516

Rectangle

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



20, 99.433, 306.399



20, 99.433, 356.399



20, 99.433, 126.399



20, 99.433, 176.399

Sweetspot

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



20, 99.340, 306.374



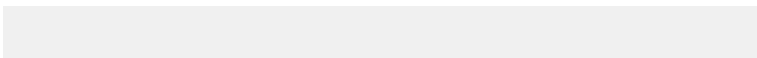
67, 37.245, 294.767



63, 36.394, 198.998



32, 25.596, 295.377



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, 99.340, 306.374



28, 121.369, 306.350



27, 92.384, 312.344



33, 5.459, 292.146



17, 90.121, 306.389



1, 11.351, 291.046

Inverse Universe

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



40, 84.127, 329.329



53, 102.702, 329.349



63, 81.463, 128.496



34, 6.471, 325.654



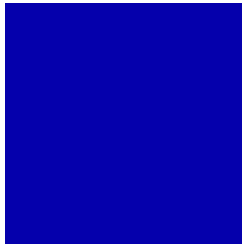
35, 76.355, 329.317



2, 13.486, 325.518

Previews

White Background



This preview shows how the CIE LCh color 20, 99.433, 306.399 looks on a white background.

Color Contrast Check

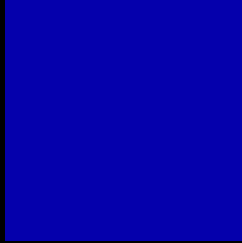
Large Text (above 18pt) WCAG AA ✓ Pass

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, 99.433, 306.399 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

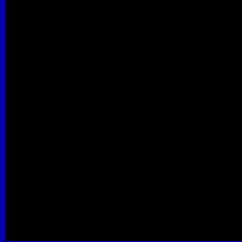
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 99.433, 306.399

Background



This preview shows how black text looks on a background with the CIELCh color 20, 99.433, 306.399.



This preview shows how white text looks on a background with the CIELCh color 20, 99.433, 306.399.

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, 99.463, 306.381

Protanopia

21, 37.400, 283.790

Deuteranopia

21, 25.533, 267.301



Tritanopia
21, 17.145, 201.057

Trichromacy



Original Color
20, 99.463, 306.381

Protanomaly
19, 64.733, 299.856

Deuteranomaly
18, 57.479, 297.867

Tritanomaly
17, 44.146, 292.575

Monochromacy



Original Color
20, 99.463, 306.381

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, 99.433, 306.399 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(5, 0, 172)` looks like.

```
.text, #text, p{  
    color:rgb(5, 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(5, 0, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(5, 0, 172) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 99.433, 306.399 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(5, 0, 172) }
```

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

```
.border{ border-color:rgb(5, 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(5, 0, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(5, 0, 172); -webkit-box-shadow:4px  
4px 4px 4px rgb(5, 0, 172); box-shadow:4px  
4px 4px 4px rgb(5, 0, 172) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 99.433, 306.399 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(5, 0, 172) }
```

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

```
.background{ background-color: rgb(5, 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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