

Converting Colors

CIELCh(20, 100.023, 306.312)

Have a look what the booklet for
CIELCh(20, 100.023, 306.312)
contains.

CIELCh(20, 100.044, 306.287)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

CIELCh(20, 100.044, 306.287)

Conversions

Conversions Part 1

Format	Color
Hex	0000AD
RGB	0, 0, 173
RGB Percent	0%, 0%, 68%
CMY	1.0000, 1.0000, 0.3228
CMYK	1.00, 1.00, 0.00, 0.32
HSL	240°, 100%, 34%
HSV	240°, 100%, 68%
XYZ	7.4919, 2.9891, 39.5585
YIQ	19.7220, -55.5330, 53.8030

Conversions

Conversions Part 2

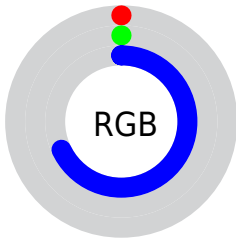
Format	Color
RYB	0, 0, 173
Decimal	173
CIELab	20.00, 59.21, -80.64
CIELCh	20, 100.044, 306.287
Yxy	2.9891, 0.1497, 0.0597
Android (android.graphics.Color)	4278190253 (0xFF0000AD)
YUV	19.7220, 75.5661, -17.2962
Hunter-Lab	17.2889, 47.0947, -123.5586

Details

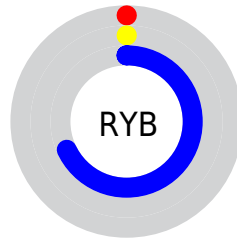
The CIELCh color **20, 100.044, 306.287** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **68, 72.356, 102.852**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **40, 100.207, 306.324**, and **11, 76.176, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 99.911, 306.287**, and if you desaturate by 10%, it is **22, 94.517, 305.274**.

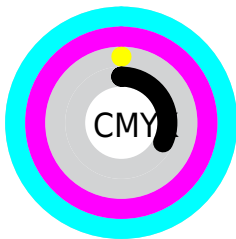
Distribution



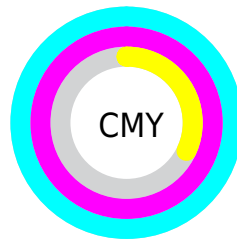
- Red (0%)
- Green (0%)
- Blue (68%)



- Red (0%)
- Yellow (0%)
- Blue (68%)



- Cyan (100%)
- Magenta (100%)
- Yellow (0%)
- Black (32%)





- Cyan (100%)
- Magenta (100%)
- Yellow (32%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 100.044, 306.287 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, 100.044, 306.287 by changing the saturation by 10% instead.


 20, 100.044,
306.287


 20, 100.044,
306.287


 100, 100.044,
306.287


 10, 100.044,
306.287


 40, 100.044,
306.287

 0, 100.044,
306.287

 50, 100.044,
306.287

 60, 100.044,
306.287

 70, 100.044,
306.287

 80, 100.044,
306.287

 90, 100.044,

306.287

■ 20, 100.044,
306.287

■ 20, 100.044,
306.287

■ 20, 99.911,
306.287

■ 22, 94.517,
305.274

■ 25, 86.153,
303.678

■ 30, 75.458,
301.622

■ 35, 63.875,
299.433

■ 41, 52.246,
297.339

■ 47, 40.935,
295.451

■ 53, 30.057,
293.807

■ 59, 19.626,
292.398

■ 65, 9.620, 291.202

Harmonies

Complementary

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



20, 100.044, 306.287



68, 72.356, 102.852

Rectangle

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



20, 100.044, 306.287



20, 100.044, 356.287



20, 100.044, 126.287



20, 100.044, 176.287

Sweetspot

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



20, 99.911, 306.287



67, 37.235, 293.888



64, 37.417, 196.386



32, 25.591, 294.533



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, 99.911, 306.287



28, 121.494, 306.287



27, 93.118, 311.953



33, 5.457, 291.126



17, 90.272, 306.287



1, 11.347, 290.178

Inverse Universe

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



41, 86.286, 328.233



53, 104.926, 328.233



63, 81.385, 127.962



34, 6.590, 324.922



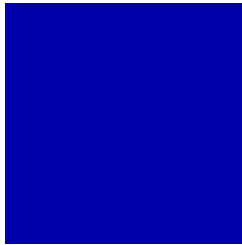
35, 77.961, 328.233



2, 13.857, 324.439

Previews

White Background



This preview shows how the CIE LCh color 20, 100.044, 306.287 looks on a white background.

Color Contrast Check

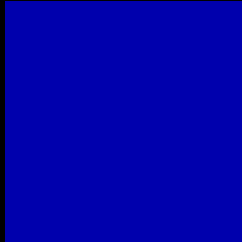
Large Text (above 18pt) WCAG AA ✓ Pass

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, 100.044, 306.287 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, 100.044, 306.287

Background



This preview shows how black text looks on a background with the CIELCh color 20, 100.044, 306.287.



This preview shows how white text looks on a background with the CIELCh color 20, 100.044, 306.287.

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, 100.044, 306.287

Protanopia

21, 38.017, 284.265

Deuteranopia

21, 25.533, 267.301



Tritanopia
21, 17.025, 203.450

Trichromacy



Original Color
20, 100.044, 306.287

Protanomaly
19, 65.345, 299.849

Deuteranomaly
18, 57.512, 297.720

Tritanomaly
17, 44.813, 292.609

Monochromacy



Original Color
20, 100.044, 306.287

Achromatopsia
6, 0.002, 296.812

Achromatomaly
8, 45.583, 302.822

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 100.044, 306.287 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(0, 0, 173)` looks like.

```
.text, #text, p{  
    color:rgb(0, 0, 173)  
}
```

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(0, 0, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 0, 173) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 100.044, 306.287 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(0, 0, 173) }
```

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

```
.border{ border-color:rgb(0, 0, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 0, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 0, 173); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 0, 173); box-shadow:4px  
4px 4px 4px rgb(0, 0, 173) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 100.044, 306.287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 0, 173) }
```

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

```
.background{ background-color: rgb(0, 0,  
173) }
```

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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