

Converting Colors

CIELCh(20, 101.501, 303.852)

Have a look what the booklet for
CIELCh(20, 101.501, 303.852)
contains.

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Color

CIELCh(22, 99.244, 305.366)

Conversions

Conversions Part 1

Format	Color
Hex	000DB3
RGB	0, 13, 179
RGB Percent	0%, 5%, 70%
CMY	1.0000, 0.9503, 0.2991
CMYK	1.00, 0.93, 0.00, 0.30
HSL	236°, 100%, 35%
HSV	236°, 100%, 70%
XYZ	8.2336, 3.5154, 42.7484
YIQ	28.0370, -61.0340, 48.8700

Conversions

Conversions Part 2

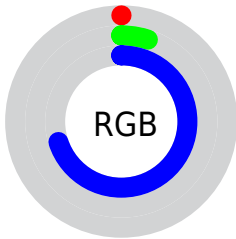
Format	Color
RYB	0, 12, 179
Decimal	3507
CIELab	22.00, 57.44, -80.93
CIELCh	22, 99.244, 305.366
Yxy	3.5154, 0.1511, 0.0645
Android (android.graphics.Color)	4278193587 (0xFF000DB3)
YUV	28.0370, 74.4248, -24.5884
Hunter-Lab	18.7494, 45.5750, -122.0554

Details

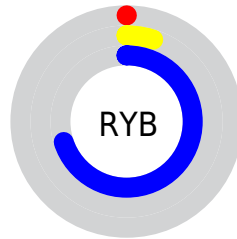
The CIELCh color **22, 99.244, 305.366** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **67, 70.538, 98.138**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 99.026, 305.319**, and **12, 78.913, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **22, 99.216, 305.390**, and if you desaturate by 10%, it is **25, 92.421, 303.900**.

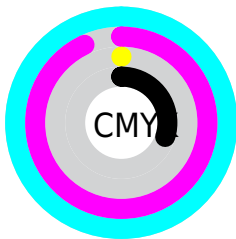
Distribution



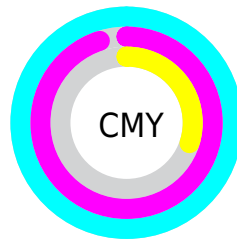
- Red (0%)
- Green (5%)
- Blue (70%)



- Red (0%)
- Yellow (5%)
- Blue (70%)



- Cyan (100%)
- Magenta (93%)
- Yellow (0%)
- Black (30%)





- Cyan (100%)
- Magenta (95%)
- Yellow (30%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 22, 99.244, 305.366 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 22, 99.244, 305.366 by changing the saturation by 10% instead.

 22, 99.244,
305.366


 22, 99.244,
305.366

 100, 99.244,
305.366


 12, 99.244,
305.366


 42, 99.244,
305.366


 2, 99.244, 305.366

 52, 99.244,
305.366

 0, 99.244, 305.366

 62, 99.244,
305.366

 72, 99.244,
305.366

 82, 99.244,
305.366

 92, 99.244,

305.366

■ 22, 99.244,
305.366

■ 22, 99.244,
305.366

■ 22, 99.216,
305.390

■ 25, 92.421,
303.900

■ 28, 82.890,
301.766

■ 33, 71.976,
299.352

■ 38, 60.713,
296.938

■ 44, 49.625,
294.698

■ 50, 38.907,
292.709

■ 55, 28.605,
290.985

■ 61, 18.707,
289.510

■ 67, 9.184, 288.256

Harmonies

Complementary

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



22, 99.244, 305.366



67, 70.538, 98.138

Rectangle

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



22, 99.244, 305.366



22, 99.244, 355.366



22, 99.244, 125.366



22, 99.244, 175.366

Sweetspot

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



22, 99.216, 305.390



70, 35.404, 291.067



66, 41.386, 184.467



34, 24.551, 291.759



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



22, 99.216, 305.390



30, 121.534, 305.600



26, 97.244, 310.197



35, 5.190, 288.178



18, 87.940, 305.221



1, 12.591, 287.897

Inverse Universe

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



37, 77.119, 37.114



49, 94.512, 37.754



66, 81.261, 124.977



35, 3.922, 14.179



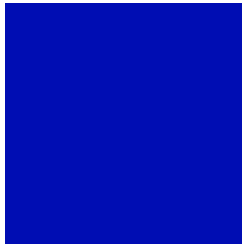
31, 68.344, 36.608



2, 9.194, 14.858

Previews

White Background



This preview shows how the CIE LCh color 22, 99.244, 305.366 looks on a white background.

Color Contrast Check

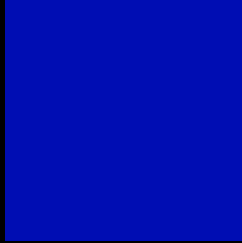
Large Text (above 18pt) WCAG AA ✓ Pass

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 22, 99.244, 305.366 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

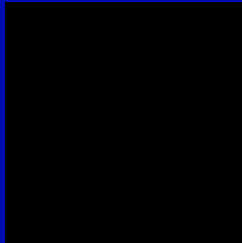
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 99.244, 305.366

Background



This preview shows how black text looks on a background with the CIELCh color 22, 99.244, 305.366.



This preview shows how white text looks on a background with the CIELCh color 22, 99.244, 305.366.

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

22, 99.244, 305.366

Protanopia

23, 39.054, 283.984

Deuteranopia

23, 26.675, 267.763



Tritanopia
23, 17.603, 203.161

Trichromacy



Original Color
22, 99.244, 305.366

Protanomaly
21, 64.784, 298.492

Deuteranomaly
20, 56.159, 295.647

Tritanomaly
19, 42.949, 289.789

Monochromacy



Original Color
22, 99.244, 305.366

Achromatopsia
10, 0.003, 296.813

Achromatomaly
11, 43.459, 300.225

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 99.244, 305.366 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, 13, 179)` looks like.

```
.text, #text, p{  
    color:rgb(0, 13, 179)  
}
```

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, 13, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 13, 179) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 99.244, 305.366 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, 13, 179) }
```

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

```
.border{ border-color:rgb(0, 13, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 13, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 13, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 13, 179);  
box-shadow:4px 4px 4px 4px rgb(0, 13, 179)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 99.244, 305.366 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 13, 179) }
```

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

```
.background{ background-color: rgb(0, 13,  
179) }
```

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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