

Converting Colors

CIELCh(22, 100.815, 307.282)

Have a look what the booklet for
CIELCh(22, 100.815, 307.282)
contains.

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Color

CIELCh(22, 100.726, 307.201)

Conversions

Conversions Part 1

Format	Color
Hex	2100B2
RGB	33, 0, 178
RGB Percent	13%, 0%, 70%
CMY	0.8697, 1.0000, 0.3035
CMYK	0.81, 1.00, 0.00, 0.30
HSL	251°, 100%, 35%
HSV	251°, 100%, 70%
XYZ	8.6258, 3.5154, 42.1379
YIQ	30.1590, -37.4700, 62.3540

Conversions

Conversions Part 2

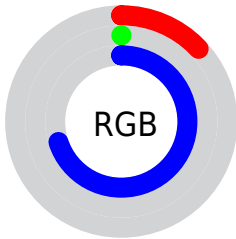
Format	Color
RYB	33, 0, 178
Decimal	2162866
CIELab	22.00, 60.90, -80.23
CIELCh	22, 100.726, 307.201
Yxy	3.5154, 0.1589, 0.0648
Android (android.graphics.Color)	4280352946 (0xFF2100B2)
YUV	30.1590, 72.8856, 2.4916
Hunter-Lab	18.7494, 49.3085, -120.1250

Details

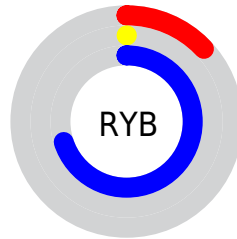
The CIELCh color **22, 100.726, 307.201** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **68, 75.582, 113.963**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 100.653, 307.114**, and **12, 78.458, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **22, 100.607, 307.171**, and if you desaturate by 10%, it is **24, 95.033, 306.796**.

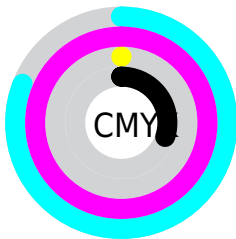
Distribution



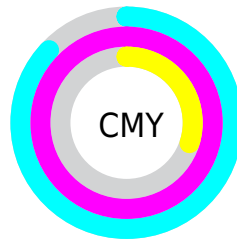
- Red (13%)
- Green (0%)
- Blue (70%)



- Red (13%)
- Yellow (0%)
- Blue (70%)



- Cyan (81%)
- Magenta (100%)
- Yellow (0%)
- Black (30%)





- Cyan (87%)
- Magenta (100%)
- Yellow (30%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 22, 100.726, 307.201 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, 100.726, 307.201 by changing the saturation by 10% instead.


 22, 100.726,
307.201


 22, 100.726,
307.201


 100, 100.726,
307.201


 12, 100.726,
307.201


 42, 100.726,
307.201


 2, 100.726,
307.201

 52, 100.726,
307.201

 0, 100.726,
307.201

 62, 100.726,
307.201

 72, 100.726,
307.201

 82, 100.726,
307.201

 92, 100.726,

307.201

■ 22, 100.726,
307.201

■ 22, 100.726,
307.201

■ 22, 100.607,
307.171

■ 24, 95.033,
306.796

■ 28, 86.787,
306.026

■ 33, 76.403,
304.889

■ 38, 65.049,
303.601

■ 43, 53.469,
302.312

■ 49, 42.047,
301.104

■ 55, 30.952,
300.016

■ 61, 20.244,
299.056

■ 67, 9.934, 298.219

Harmonies

Complementary

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



22, 100.726, 307.201



68, 75.582, 113.963

Rectangle

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



22, 100.726, 307.201



22, 100.726, 357.201



22, 100.726, 127.201



22, 100.726, 177.201

Sweetspot

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



22, 100.607, 307.171



70, 38.505, 300.070



56, 33.277, 231.809



34, 26.692, 300.511



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, 100.607, 307.171



30, 123.088, 307.062



32, 91.558, 316.871



35, 5.642, 298.167



18, 90.028, 307.248



1, 13.400, 295.843

Inverse Universe

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



40, 76.202, 337.350



53, 92.850, 337.544



64, 87.583, 132.798



35, 5.929, 330.619



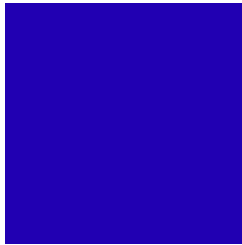
34, 68.379, 337.222



2, 13.486, 332.930

Previews

White Background



This preview shows how the CIE LCh color 22, 100.726, 307.201 looks on a white background.

Color Contrast Check

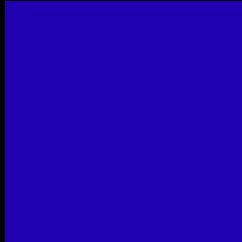
Large Text (above 18pt) WCAG AA ✓ Pass

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, 100.726, 307.201 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, 100.726, 307.201

Background



This preview shows how black text looks on a background with the CIELCh color 22, 100.726, 307.201.



This preview shows how white text looks on a background with the CIELCh color 22, 100.726, 307.201.

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, 100.793, 307.156

Protanopia

23, 38.992, 283.590

Deuteranopia

23, 27.215, 268.746



Tritanopia
23, 17.795, 203.070

Trichromacy



Original Color
22, 100.793, 307.156

Protanomaly
20, 67.255, 300.425

Deuteranomaly
19, 59.509, 298.581

Tritanomaly
18, 45.695, 293.825

Monochromacy



Original Color
22, 100.793, 307.156

Achromatopsia
11, 0.003, 296.813

Achromatomaly
12, 45.687, 305.032

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 100.726, 307.201 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(33, 0, 178)` looks like.

```
.text, #text, p{  
    color:rgb(33, 0, 178)  
}
```

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(33, 0, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 0, 178) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 100.726, 307.201 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(33, 0, 178) }
```

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

```
.border{ border-color:rgb(33, 0, 178) }
```

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

Here you see how a box with a 4 pixel rgb(33, 0, 178) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 0, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 0, 178);  
box-shadow:4px 4px 4px 4px rgb(33, 0, 178)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 100.726, 307.201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 0, 178) }
```

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

```
.background{ background-color: rgb(33, 0,  
178) }
```

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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