

Converting Colors

CIELCh(21, 89.193, 303.944)

Have a look what the booklet for
CIELCh(21, 89.193, 303.944)
contains.

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Color

CIELCh(21, 88.922, 304.082)

Conversions

Conversions Part 1

Format	Color
Hex	0016A4
RGB	0, 22, 164
RGB Percent	0%, 9%, 64%
CMY	1.0000, 0.9141, 0.3572
CMYK	1.00, 0.87, 0.00, 0.36
HSL	232°, 100%, 32%
HSV	232°, 100%, 64%
XYZ	6.9729, 3.2451, 35.3366
YIQ	31.6100, -58.6940, 39.4980

Conversions

Conversions Part 2

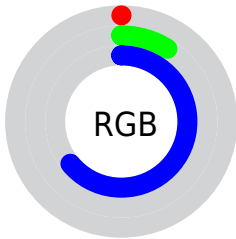
Format	Color
RYB	0, 19, 164
Decimal	5796
CIELab	21.00, 49.83, -73.65
CIELCh	21, 88.922, 304.082
Yxy	3.2451, 0.1531, 0.0712
Android (android.graphics.Color)	4278195876 (0xFF0016A4)
YUV	31.6100, 65.2683, -27.7220
Hunter-Lab	18.0142, 37.5688, -103.6928

Details

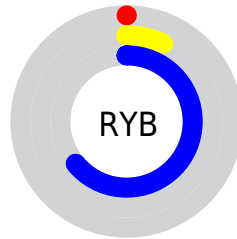
The CIELCh color **21, 88.922, 304.082** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **59, 63.595, 93.487**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 88.720, 304.110**, and **10, 72.489, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **21, 88.915, 304.092**, and if you desaturate by 10%, it is **24, 81.231, 302.021**.

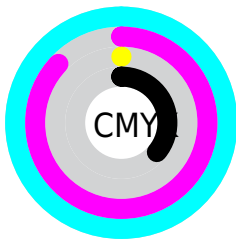
Distribution



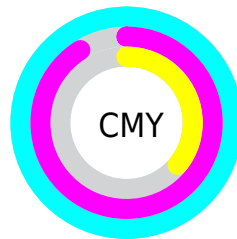
- Red (0%)
- Green (9%)
- Blue (64%)



- Red (0%)
- Yellow (7%)
- Blue (64%)



- Cyan (100%)
- Magenta (87%)
- Yellow (0%)
- Black (36%)



- Cyan (100%)
- Magenta (91%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 88.922, 304.082 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 21, 88.922, 304.082 by changing the saturation by 10% instead.

■ 21, 88.922,
304.082

■ 21, 88.922,
304.082

■ 100, 88.922,
304.082

■ 11, 88.922,
304.082

■ 41, 88.922,
304.082

■ 1, 88.922, 304.082

■ 51, 88.922,
304.082

■ 0, 88.922, 304.082

■ 61, 88.922,
304.082

■ 71, 88.922,
304.082

■ 81, 88.922,
304.082

■ 91, 88.922,

304.082

■ 21, 88.922,
304.082

■ 21, 88.922,
304.082

■ 21, 88.915,
304.092

■ 24, 81.231,
302.021

■ 28, 72.026,
299.470

■ 32, 62.224,
296.799

■ 37, 52.421,
294.233

■ 42, 42.875,
291.898

■ 47, 33.667,
289.843

■ 52, 24.799,
288.065

■ 57, 16.250,
286.542

■ 62, 7.994, 285.244

Harmonies

Complementary

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



21, 88.922, 304.082



59, 63.595, 93.487

Rectangle

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



21, 88.922, 304.082



21, 88.922, 354.082



21, 88.922, 124.082



21, 88.922, 174.082

Sweetspot

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



21, 88.915, 304.092



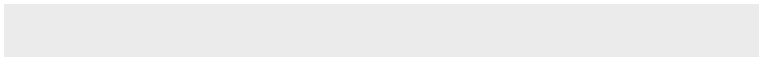
67, 30.865, 288.159



60, 41.880, 176.378



32, 21.171, 288.842



93, 0.011, 296.813



45, 0.006, 296.813

Same Dimension

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



21, 88.915, 304.092



29, 109.899, 304.459



22, 92.352, 309.125



32, 4.501, 285.157



18, 80.831, 303.883



1, 7.007, 284.760

Inverse Universe

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



34, 69.405, 33.492



45, 85.593, 34.467



61, 74.518, 122.066



32, 3.680, 9.158



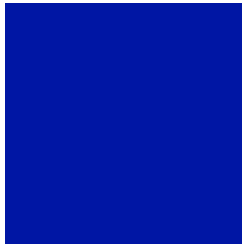
30, 63.194, 32.951



1, 5.560, 9.440

Previews

White Background



This preview shows how the CIE LCh color 21, 88.922, 304.082 looks on a white background.

Color Contrast Check

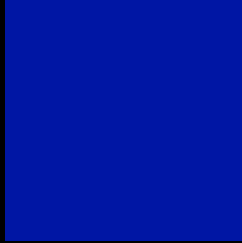
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIE LCh color 21, 88.922, 304.082 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

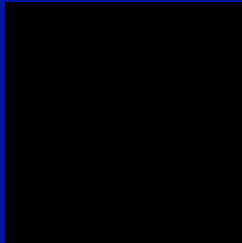
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 88.922, 304.082

Background



This preview shows how black text looks on a background with the CIELCh color 21, 88.922, 304.082.



This preview shows how white text looks on a background with the CIELCh color 21, 88.922, 304.082.

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

21, 88.922, 304.082

Protanopia

21, 38.017, 284.265

Deuteranopia

21, 26.076, 268.345



Tritanopia
21, 17.025, 203.450

Trichromacy



Original Color
21, 88.922, 304.082

Protanomaly
20, 58.076, 296.437

Deuteranomaly
20, 50.545, 293.500

Tritanomaly
19, 36.484, 284.945

Monochromacy



Original Color
21, 88.922, 304.082

Achromatopsia
12, 0.003, 296.813

Achromatomaly
13, 36.941, 296.622

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 88.922, 304.082 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, 22, 164)` looks like.

```
.text, #text, p{  
    color:rgb(0, 22, 164)  
}
```

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, 22, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 22, 164) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 88.922, 304.082 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, 22, 164) }
```

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

```
.border{ border-color:rgb(0, 22, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 22, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 22, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 22, 164);  
box-shadow:4px 4px 4px 4px rgb(0, 22, 164)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 88.922, 304.082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 22, 164) }
```

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

```
.background{ background-color: rgb(0, 22,  
164) }
```

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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