Converting Colors

CIELCh(21, 89.524, 304.051)

Have a look what the booklet for CIELCh(21, 89.524, 304.051) contains.

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Color

CIELCh(21, 89.411, 304.111)

Conversions

Conversions Part 1

Format	Color
Hex	0016A5
RGB	0, 22, 165
RGB Percent	0%, 9%, 65%
CMY	1.0000, 0.9154, 0.3548
CMYK	1.00, 0.87, 0.00, 0.35
HSL	232°, 100%, 32%
HSV	232°, 100%, 65%
XYZ	7.0041, 3.2451, 35.6302
YIQ	31.7240, -59.0150, 39.8090

Conversions

Conversions Part 2

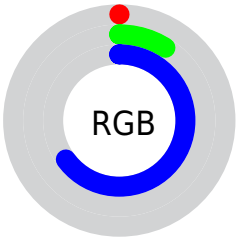
Format	Color
RYB	0, 19, 165
Decimal	5797
CIELab	21.00, 50.14, -74.03
CIELCh	21, 89.411, 304.111
Yxy	3.2451, 0.1527, 0.0707
Android (android.graphics.Color)	4278195877 (0xFF0016A5)
YUV	31.7240, 65.7051, -27.8219
Hunter-Lab	18.0142, 37.8777, -104.6592

Details

The CIELCh color 21, 89.411, 304.111 is a dark color, and the websafe version is hex 000099. A complement of this color would be 60, 63.869, 93.686, and the grayscale version is 12, 0.003, 296.813.

A 20% lighter version of the original color is 41, 89.246, 304.113, and 10, 72.952, 306.287 is the 20% darker color. If you saturate the color by 10%, you get 21, 89.369, 304.159, and if you desaturate by 10%, it is 24, 81.702, 302.110.

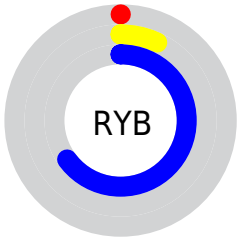
Distribution



Red (0%)

Green (9%)

Blue (65%)



Red (0%)

Yellow (7%)

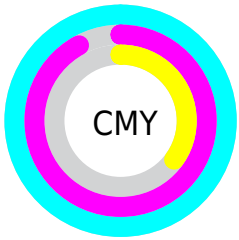
Blue (65%)

Cyan (100%)

Magenta (87%)

Yellow (0%)

Black (35%)



Cyan (100%)

Magenta (92%)

Yellow (35%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 89.411, 304.111 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, 89.411, 304.111 by changing the saturation by 10% instead.

21, 89.411, 304.111

100, 89.411, 304.111

41, 89.411, 304.111

51, 89.411, 304.111

61, 89.411, 304.111

71, 89.411, 304.111

81, 89.411, 304.111

91, 89.411,

21, 89.411, 304.111

11, 89.411, 304.111

1, 89.411, 304.111

0, 89.411, 304.111

304.111

21, 89.411, 304.111

21, 89.369, 304.159

21, 89.411, 304.111

24, 81.702, 302.110

28, 72.471, 299.574

32, 62.618, 296.913

37, 52.753, 294.353

42, 43.145, 292.021

47, 33.876, 289.968

52, 24.951, 288.193

57, 16.348, 286.672

62, 8.041, 285.376

Harmonies

Complementary

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

21, 89.411, 304.111

60, 63.869, 93.686

Rectangle

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

21, 89.411, 304.111

21, 89.411, 354.111

21, 89.411, 124.111

21, 89.411, 174.111

Sweetspot

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

21, 89.369, 304.159

66, 30.958, 288.285

61, 41.168, 178.301

32, 21.235, 288.967

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, 89.369, 304.159

29, 110.112, 304.515

23, 92.319, 309.388

32, 4.514, 285.288

18, 81.006, 303.946

1, 7.024, 284.878

Inverse Universe

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

34, 69.727, 33.666

45, 85.735, 34.617

61, 75.131, 122.803

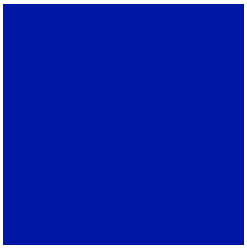
32, 3.678, 9.362

30, 63.300, 33.113

1, 5.557, 9.628

Previews

White Background

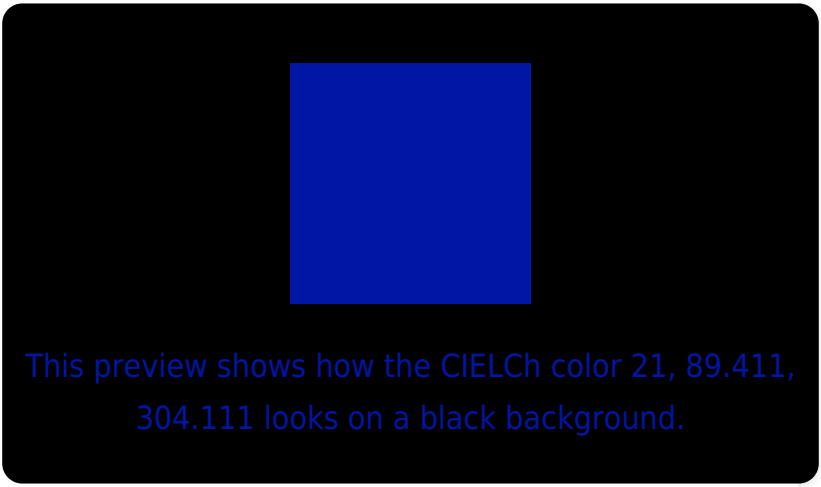


This preview shows how the CIELCh color 21, 89.411, 304.111 looks on a white background.

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

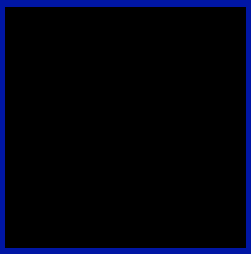


Color Contrast Check

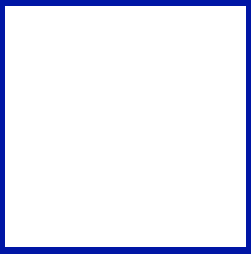
Large Text (above 18pt) WCAG AA × Fail
Any Text WCAG AA × Fail
Large Text (above 18pt) WCAG AAA × Fail
Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the Color Contrast Checker.

CIELCh 21, 89.411, 304.111 Background



This preview shows how black text looks on a background with the CIELCh color 21, 89.411, 304.111.



This preview shows how white text looks on a background with the CIELCh color 21, 89.411, 304.111.

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, 89.411, 304.111

Protanopia
21, 38.017, 284.265

Deuteranopia
21, 26.076, 268.345

Tritanopia
21, 17.025, 203.450

Trichromacy

Original Color
21, 89.411, 304.111

Protanomaly
20, 58.076, 296.437

Deuteranomaly
20, 50.545, 293.500

Tritanomaly
19, 37.112, 285.419

Monochromacy

Original Color
21, 89.411, 304.111

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, 89.411, 304.111 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, 165) looks like.

```
.text, #text, p{
    color:rgb(0, 22, 165)
}
```

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, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 22, 165) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 89.411, 304.111 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, 165) }
```

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

```
.border{ border-color:rgb(0, 22, 165) }
```

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, 165) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 22, 165); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 22, 165); box-shadow:4px 4px 4px 4px rgb(0, 22, 165) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 89.411, 304.111 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, 165) }
```

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

```
.background{ background-color:rgb(0, 22,
165) }
```

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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