

Converting Colors

CIELCh(21, 77.523, 301.670)

Have a look what the booklet for
CIELCh(21, 77.523, 301.670)
contains.

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Color

CIELCh(21, 77.027, 301.604)

Conversions

Conversions Part 1

Format	Color
Hex	002097
RGB	0, 32, 151
RGB Percent	0%, 13%, 59%
CMY	1.0000, 0.8752, 0.4087
CMYK	1.00, 0.79, 0.00, 0.41
HSL	227°, 100%, 30%
HSV	227°, 100%, 59%
XYZ	6.0692, 3.2451, 29.4873
YIQ	35.9980, -57.2710, 30.2250

Conversions

Conversions Part 2

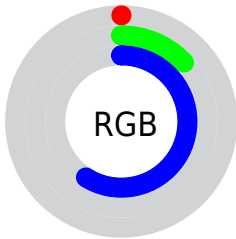
Format	Color
R_{YB}	0, 26, 151
Decimal	8343
CIE Lab	21.00, 40.37, -65.60
CIE LCh	21, 77.027, 301.604
Yxy	3.2451, 0.1564, 0.0836
Android (android.graphics.Color)	4278198423 (0xFF002097)
YUV	35.9980, 56.6960, -31.5702
Hunter-Lab	18.0142, 28.6137, -84.4413

Details

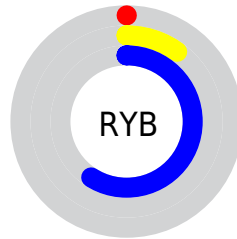
The CIELCh color **21, 77.027, 301.604** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **52, 57.541, 87.200**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 76.510, 301.425**, and **8, 66.867, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **21, 77.014, 301.633**, and if you desaturate by 10%, it is **24, 69.250, 298.979**.

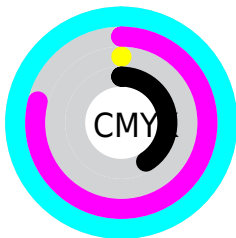
Distribution



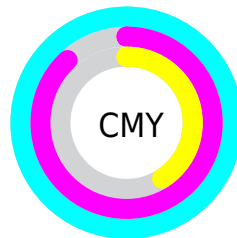
- Red (0%)
- Green (13%)
- Blue (59%)



- Red (0%)
- Yellow (10%)
- Blue (59%)



- Cyan (100%)
- Magenta (79%)
- Yellow (0%)
- Black (41%)



- Cyan (100%)
- Magenta (88%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 77.027, 301.604 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, 77.027, 301.604 by changing the saturation by 10% instead.

■ 21, 77.027,
301.604

■ 21, 77.027,
301.604

■ 100, 77.027,
301.604

■ 11, 77.027,
301.604

■ 41, 77.027,
301.604

■ 1, 77.027, 301.604

■ 51, 77.027,
301.604

■ 0, 77.027, 301.604

■ 61, 77.027,
301.604

■ 71, 77.027,
301.604

■ 81, 77.027,
301.604

■ 91, 77.027,

301.604

■ 21, 77.027,
301.604

■ 21, 77.027,
301.604

■ 21, 77.014,
301.633

■ 24, 69.250,
298.979

■ 28, 60.930,
296.011

■ 31, 52.523,
293.074

■ 36, 44.286,
290.336

■ 40, 36.306,
287.882

■ 44, 28.592,
285.735

■ 49, 21.126,
283.880

■ 53, 13.885,
282.289

■ 58, 6.851, 280.930

Harmonies

Complementary

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



21, 77.027, 301.604



52, 57.541, 87.200

Rectangle

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



21, 77.027, 301.604



21, 77.027, 351.604



21, 77.027, 121.604



21, 77.027, 171.604

Sweetspot

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



21, 77.014, 301.633



63, 26.224, 283.985



55, 42.725, 169.523



31, 18.137, 284.678



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



21, 77.014, 301.633



28, 95.325, 302.183



19, 87.820, 308.256



30, 3.915, 280.835



19, 72.628, 301.452



1, 4.201, 279.951

Inverse Universe

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



31, 61.854, 27.646



41, 75.953, 28.867



57, 68.627, 118.842



30, 3.571, 3.189



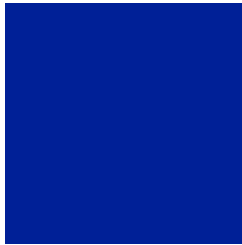
29, 58.493, 27.253



1, 3.770, 2.678

Previews

White Background



This preview shows how the CIE LCh color 21, 77.027, 301.604 looks on a white background.

Color Contrast Check

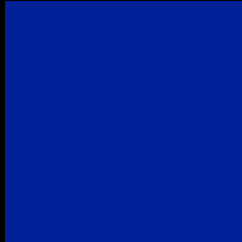
Large Text (above 18pt) WCAG AA ✓ Pass

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, 77.027, 301.604 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

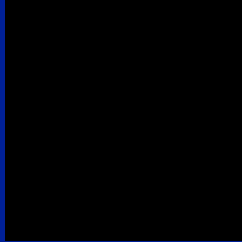
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 77.027, 301.604

Background



This preview shows how black text looks on a background with the CIELCh color 21, 77.027, 301.604.



This preview shows how white text looks on a background with the CIELCh color 21, 77.027, 301.604.

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, 77.027, 301.604

Protanopia

21, 37.400, 283.790

Deuteranopia

21, 26.059, 268.889



Tritanopia
21, 17.145, 201.057

Trichromacy



Original Color
21, 77.027, 301.604

Protanomaly
21, 52.900, 294.090

Deuteranomaly
20, 44.644, 290.043

Tritanomaly
20, 31.365, 278.983

Monochromacy



Original Color
21, 77.027, 301.604

Achromatopsia
14, 0.003, 296.813

Achromatomaly
15, 30.975, 292.333

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 77.027, 301.604 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, 32, 151)` looks like.

```
.text, #text, p{  
    color:rgb(0, 32, 151)  
}
```

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, 32, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 32, 151) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 77.027, 301.604 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, 32, 151) }
```

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

```
.border{ border-color:rgb(0, 32, 151) }
```

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

Here you see how a box with a 4 pixel rgb(0, 32, 151) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 32, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 32, 151);  
box-shadow:4px 4px 4px 4px rgb(0, 32, 151)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 77.027, 301.604 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 32, 151) }
```

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

```
.background{ background-color: rgb(0, 32,  
151) }
```

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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