

Converting Colors

CIELCh(21, 45.313, 289.675)

Have a look what the booklet for
CIELCh(21, 45.313, 289.675)
contains.

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Color

CIELCh(21, 45.082, 289.657)

Conversions

Conversions Part 1

Format	Color
Hex	002F72
RGB	0, 47, 114
RGB Percent	0%, 18%, 45%
CMY	1.0000, 0.8158, 0.5530
CMYK	1.00, 0.59, 0.00, 0.55
HSL	215°, 100%, 22%
HSV	215°, 100%, 45%
XYZ	4.0506, 3.2451, 16.3242
YIQ	40.5850, -49.5190, 10.8730

Conversions

Conversions Part 2

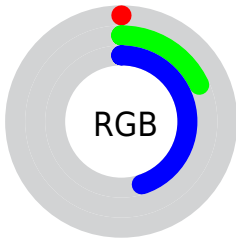
Format	Color
RYB	0, 33, 114
Decimal	12146
CIELab	21.00, 15.17, -42.45
CIELCh	21, 45.082, 289.657
Yxy	3.2451, 0.1715, 0.1374
Android (android.graphics.Color)	4278202226 (0xFF002F72)
YUV	40.5850, 36.1936, -35.5930
Hunter-Lab	18.0142, 8.6117, -41.1175

Details

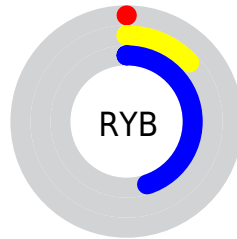
The CIELCh color **21, 45.082, 289.657** is a dark color, and the websafe version is hex **003366**. A complement of this color would be **33, 45.674, 69.868**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 45.449, 289.985**, and **3, 45.137, 302.173** is the 20% darker color. If you saturate the color by 10%, you get **21, 45.082, 289.663**, and if you desaturate by 10%, it is **23, 40.241, 286.080**.

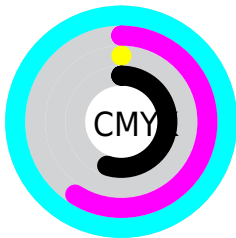
Distribution



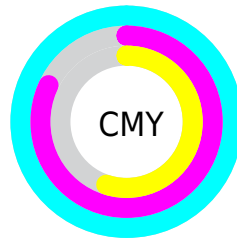
- Red (0%)
- Green (18%)
- Blue (45%)



- Red (0%)
- Yellow (13%)
- Blue (45%)



- Cyan (100%)
- Magenta (59%)
- Yellow (0%)
- Black (55%)



- Cyan (100%)
- Magenta (82%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 45.082, 289.657 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, 45.082, 289.657 by changing the saturation by 10% instead.

■ 21, 45.082,
289.657

■ 21, 45.082,
289.657

■ 100, 45.082,
289.657

■ 11, 45.082,
289.657

■ 41, 45.082,
289.657

■ 1, 45.082, 289.657

■ 51, 45.082,
289.657

■ 0, 45.082, 289.657

■ 61, 45.082,
289.657

■ 71, 45.082,
289.657

■ 81, 45.082,
289.657

■ 91, 45.082,

289.657

■ 21, 45.082,
289.657

■ 21, 45.082,
289.657

■ 21, 45.082,
289.663

■ 23, 40.241,
286.080

■ 26, 35.553,
282.344

■ 28, 30.972,
278.893

■ 31, 26.469,
275.807

■ 34, 22.012,
273.106

■ 37, 17.580,
270.772

■ 39, 13.164,
268.770

■ 42, 8.760, 267.059

■ 45, 4.372, 265.607

Harmonies

Complementary

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



21, 45.082, 289.657



33, 45.674, 69.868

Rectangle

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



21, 45.082, 289.657



21, 45.082, 339.657



21, 45.082, 109.657



21, 45.082, 159.657

Sweetspot

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



21, 45.082, 289.663



51, 16.300, 268.914



42, 43.991, 154.828



24, 11.055, 269.531



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



21, 45.082, 289.663



28, 55.904, 290.789



11, 73.347, 306.723



22, 2.427, 265.474



22, 46.998, 289.904



47, 85.168, 292.312

Inverse Universe

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



23, 46.618, 8.086



31, 56.327, 9.499



46, 53.743, 107.751



22, 3.050, 349.377



24, 48.331, 8.382



53, 82.853, 11.525

Previews

White Background



This preview shows how the CIE LCh color 21, 45.082, 289.657 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 21, 45.082, 289.657 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

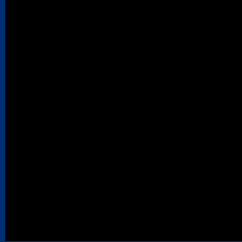
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 45.082, 289.657

Background



This preview shows how black text looks on a background with the CIELCh color 21, 45.082, 289.657.



This preview shows how white text looks on a background with the CIELCh color 21, 45.082, 289.657.

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, 45.082, 289.657

Protanopia

21, 38.083, 284.674

Deuteranopia

21, 26.612, 269.884



Tritanopia
21, 16.831, 203.552

Trichromacy



Original Color
21, 45.082, 289.657

Protanomaly
21, 40.640, 286.790

Deuteranomaly
21, 33.070, 279.504

Tritanomaly
21, 21.426, 257.769

Monochromacy



Original Color
21, 45.082, 289.657

Achromatopsia
17, 0.003, 296.813

Achromatomaly
17, 17.947, 275.759

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 45.082, 289.657 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, 47, 114)` looks like.

```
.text, #text, p{  
    color:rgb(0, 47, 114)  
}
```

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, 47, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 47, 114) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 45.082, 289.657 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, 47, 114) }
```

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

```
.border{ border-color:rgb(0, 47, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 47, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 47, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 47, 114);  
box-shadow:4px 4px 4px 4px rgb(0, 47, 114)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 45.082, 289.657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 47, 114) }
```

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

```
.background{ background-color: rgb(0, 47,  
114) }
```

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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