

Converting Colors

CIELCh(12, 80.894, 290.398)

Have a look what the booklet for
CIELCh(12, 80.894, 290.398)
contains.

CIELCh(20, 73.886, 301.546)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(20, 73.886, 301.546)

Conversions

Conversions Part 1

Format	Color
Hex	031F90
RGB	3, 31, 144
RGB Percent	1%, 12%, 56%
CMY	0.9893, 0.8797, 0.4359
CMYK	0.98, 0.79, 0.00, 0.44
HSL	228°, 96%, 29%
HSV	228°, 98%, 56%
XYZ	5.5371, 2.9891, 26.6058
YIQ	35.5100, -52.9610, 29.2070

Conversions

Conversions Part 2

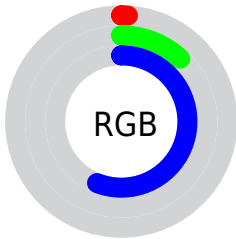
Format	Color
R_{YB}	3, 26, 144
Decimal	204688
CIE _{Lab}	20.00, 38.66, -62.97
CIE _{LCh}	20, 73.886, 301.546
Yxy	2.9891, 0.1576, 0.0851
Android (android.graphics.Color)	4278394768 (0xFF031F90)
YUV	35.5100, 53.4856, -28.5113
Hunter-Lab	17.2889, 26.9123, -79.1390

Details

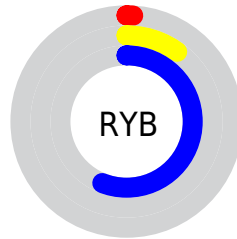
The CIELCh color **20, 73.886, 301.546** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **50, 55.470, 88.639**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 73.925, 301.566**, and **7, 63.349, 306.184** is the 20% darker color. If you saturate the color by 10%, you get **19, 75.245, 301.975**, and if you desaturate by 10%, it is **23, 66.236, 298.878**.

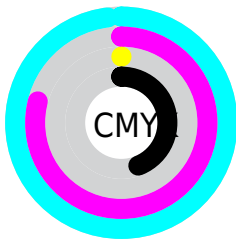
Distribution



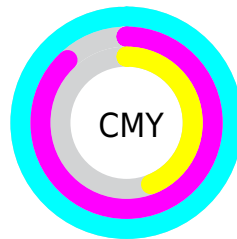
- Red (1%)
- Green (12%)
- Blue (56%)



- Red (1%)
- Yellow (10%)
- Blue (56%)



- Cyan (98%)
- Magenta (79%)
- Yellow (0%)
- Black (44%)



- Cyan (99%)
- Magenta (88%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 73.886, 301.546 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 20, 73.886, 301.546 by changing the saturation by 10% instead.

■ 20, 73.886,
301.546

■ 20, 73.886,
301.546

■ 100, 73.886,
301.546

■ 10, 73.886,
301.546

■ 40, 73.886,
301.546

■ 0, 73.886, 301.546

■ 50, 73.886,
301.546

■ 60, 73.886,
301.546

■ 70, 73.886,
301.546

■ 80, 73.886,
301.546

■ 90, 73.886,

301.546

■ 20, 73.886,
301.546

■ 20, 73.886,
301.546

■ 19, 75.245,
301.975

■ 23, 66.236,
298.878

■ 27, 58.074,
295.971

■ 30, 49.862,
293.122

■ 35, 41.832,
290.482

■ 39, 34.059,
288.126

■ 43, 26.548,
286.069

■ 47, 19.283,
284.294

■ 52, 12.241,
282.772

■ 56, 5.404, 281.473

Harmonies

Complementary

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



20, 73.886, 301.546



50, 55.470, 88.639

Rectangle

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



20, 73.886, 301.546



20, 73.886, 351.546



20, 73.886, 121.546



20, 73.886, 171.546

Sweetspot

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



20, 73.887, 301.547



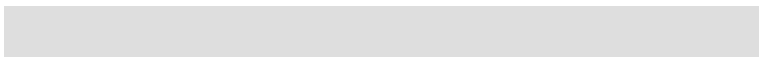
60, 24.616, 284.543



53, 40.057, 171.556



29, 17.124, 285.209



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



20, 73.887, 301.547



26, 92.633, 302.519



18, 83.532, 308.448



28, 3.750, 281.602



18, 71.546, 301.818



0, 2.504, 280.526

Inverse Universe

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



30, 59.256, 27.553



39, 73.478, 29.636



55, 66.067, 119.465



28, 3.355, 4.163



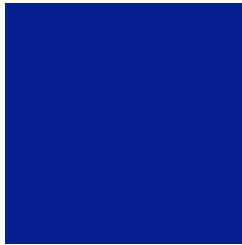
27, 57.304, 28.053



0, 2.215, 3.402

Previews

White Background



This preview shows how the CIE LCh color 20, 73.886, 301.546 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 20, 73.886, 301.546 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

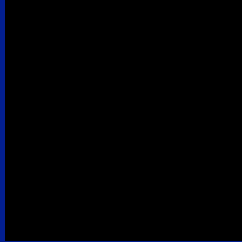
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 73.886, 301.546

Background



This preview shows how black text looks on a background with the CIELCh color 20, 73.886, 301.546.



This preview shows how white text looks on a background with the CIELCh color 20, 73.886, 301.546.

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


20, 73.770, 301.486

Protanopia

20, 35.668, 283.136

Deuteranopia

20, 24.925, 267.900



Tritanopia
20, 16.442, 203.764

Trichromacy



Original Color
20, 73.770, 301.486

Protanomaly
20, 49.913, 293.356

Deuteranomaly
19, 42.213, 289.196

Tritanomaly
19, 30.188, 278.817

Monochromacy



Original Color
20, 73.770, 301.486

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 29.709, 292.325

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 73.886, 301.546 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(3, 31, 144)` looks like.

```
.text, #text, p{  
    color:rgb(3, 31, 144)  
}
```

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(3, 31, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 31, 144) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 73.886, 301.546 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(3, 31, 144) }
```

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

```
.border{ border-color:rgb(3, 31, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 31, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 31, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(3, 31, 144);  
box-shadow:4px 4px 4px 4px rgb(3, 31, 144)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 73.886, 301.546 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 31, 144) }
```

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

```
.background{ background-color: rgb(3, 31,  
144) }
```

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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