

Converting Colors

CIELCh(20, 97.012, 306.001)

Have a look what the booklet for
CIELCh(20, 97.012, 306.001)
contains.

CIELCh(20, 97.108, 306.030)	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, 97.108, 306.030)

Conversions

Conversions Part 1

Format	Color
Hex	0404A9
RGB	4, 4, 169
RGB Percent	2%, 2%, 66%
CMY	0.9847, 0.9834, 0.3365
CMYK	0.98, 0.98, 0.00, 0.34
HSL	240°, 95%, 34%
HSV	240°, 98%, 66%
XYZ	7.2750, 2.9891, 37.8300
YIQ	22.8100, -52.9650, 51.3150

Conversions

Conversions Part 2

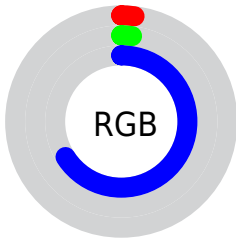
Format	Color
R _{YB}	4, 4, 169
Decimal	263337
CIE Lab	20.00, 57.12, -78.53
CIE LCh	20, 97.108, 306.030
Yxy	2.9891, 0.1513, 0.0622
Android (android.graphics.Color)	4278453417 (0xFF0404A9)
YUV	22.8100, 72.0717, -16.4964
Hunter-Lab	17.2889, 44.8552, -117.6309

Details

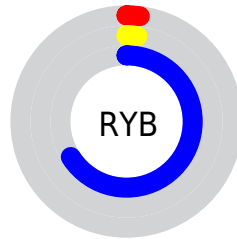
The CIELCh color **20, 97.108, 306.030** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **67, 70.684, 102.782**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **40, 97.218, 305.997**, and **11, 74.338, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 98.323, 306.261**, and if you desaturate by 10%, it is **22, 91.279, 304.909**.

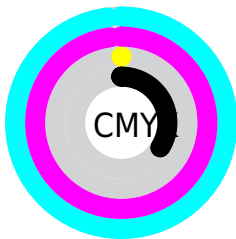
Distribution



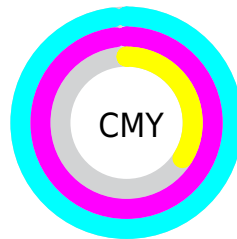
- Red (2%)
- Green (2%)
- Blue (66%)



- Red (2%)
- Yellow (2%)
- Blue (66%)



- Cyan (98%)
- Magenta (98%)
- Yellow (0%)
- Black (34%)



- Cyan (98%)
- Magenta (98%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 97.108, 306.030 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, 97.108, 306.030 by changing the saturation by 10% instead.

■ 20, 97.108,
306.030

■ 20, 97.108,
306.030

■ 100, 97.108,
306.030

■ 10, 97.108,
306.030

■ 40, 97.108,
306.030

■ 0, 97.108, 306.030

■ 50, 97.108,
306.030

■ 60, 97.108,
306.030

■ 70, 97.108,
306.030

■ 80, 97.108,
306.030

■ 90, 97.108,

306.030

■ 20, 97.108,
306.030

■ 20, 97.108,
306.030

■ 20, 98.323,
306.261

■ 22, 91.279,
304.909

■ 26, 82.316,
303.158

■ 30, 71.477,
301.037

■ 36, 60.037,
298.852

■ 41, 48.676,
296.800

■ 47, 37.671,
294.970

■ 53, 27.099,
293.383

■ 59, 16.962,
292.027

■ 65, 7.234, 290.878

Harmonies

Complementary

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



20, 97.108, 306.030



67, 70.684, 102.782

Rectangle

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



20, 97.108, 306.030



20, 97.108, 356.030



20, 97.108, 126.030



20, 97.108, 176.030

Sweetspot

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



20, 97.110, 306.031



66, 35.177, 293.654



63, 37.161, 193.936



32, 24.310, 294.292



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



20, 97.110, 306.031



27, 119.328, 306.268



26, 90.995, 311.682



32, 5.313, 291.047



16, 89.051, 306.257



0, 9.543, 290.112

Inverse Universe

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



35, 75.403, 39.146



46, 93.234, 39.935



62, 78.961, 127.169



33, 3.724, 19.750



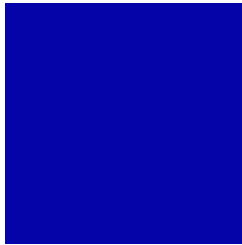
30, 68.957, 39.283



1, 6.572, 19.267

Previews

White Background



This preview shows how the CIE LCh color 20, 97.108, 306.030 looks on a white background.

Color Contrast Check

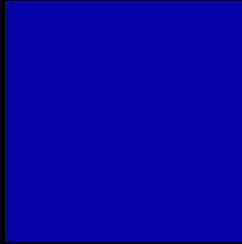
Large Text (above 18pt) WCAG AA ✓ Pass

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, 97.108, 306.030 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

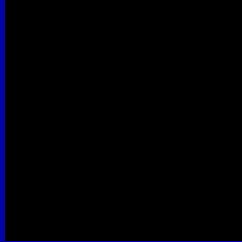
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 97.108, 306.030

Background



This preview shows how black text looks on a background with the CIELCh color 20, 97.108, 306.030.



This preview shows how white text looks on a background with the CIELCh color 20, 97.108, 306.030.

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, 97.078, 306.050

Protanopia

21, 37.463, 284.205

Deuteranopia

21, 25.512, 267.852



Tritanopia
21, 16.951, 201.124

Trichromacy



Original Color
20, 97.078, 306.050

Protanomaly
19, 63.504, 299.351

Deuteranomaly
18, 56.184, 297.211

Tritanomaly
17, 42.148, 291.153

Monochromacy



Original Color
20, 97.078, 306.050

Achromatopsia
8, 0.002, 296.812

Achromatomaly
9, 43.390, 302.066

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 97.108, 306.030 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(4, 4, 169)` looks like.

```
.text, #text, p{  
    color:rgb(4, 4, 169)  
}
```

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(4, 4, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(4, 4, 169) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 97.108, 306.030 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(4, 4, 169) }
```

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

```
.border{ border-color:rgb(4, 4, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(4, 4, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(4, 4, 169); -webkit-box-shadow:4px  
4px 4px 4px rgb(4, 4, 169); box-shadow:4px  
4px 4px 4px rgb(4, 4, 169) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 97.108, 306.030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(4, 4, 169) }
```

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

```
.background{ background-color: rgb(4, 4,  
169) }
```

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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor