

Converting Colors

CIELCh(20, 87.904, 304.189)

Have a look what the booklet for
CIELCh(20, 87.904, 304.189)
contains.

CIELCh(20, 87.841, 304.254)	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, 87.841, 304.254)

Conversions

Conversions Part 1

Format	Color
Hex	00149F
RGB	0, 20, 159
RGB Percent	0%, 8%, 62%
CMY	1.0000, 0.9235, 0.3747
CMYK	1.00, 0.88, 0.00, 0.37
HSL	233°, 100%, 31%
HSV	233°, 100%, 63%
XYZ	6.5139, 2.9891, 33.2446
YIQ	29.8660, -56.5390, 38.9890

Conversions

Conversions Part 2

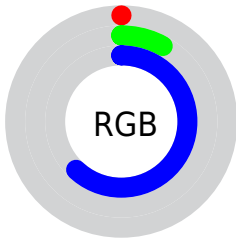
Format	Color
RYB	0, 18, 159
Decimal	5279
CIELab	20.00, 49.44, -72.61
CIELCh	20, 87.841, 304.254
Yxy	2.9891, 0.1524, 0.0699
Android (android.graphics.Color)	4278195359 (0xFF00149F)
YUV	29.8660, 63.6631, -26.1925
Hunter-Lab	17.2889, 36.9974, -101.9059

Details

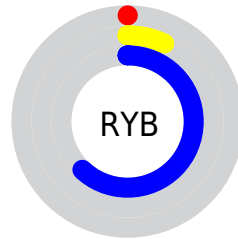
The CIELCh color **20, 87.841, 304.254** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **58, 62.755, 94.394**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 87.310, 304.184**, and **9, 70.160, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 87.791, 304.309**, and if you desaturate by 10%, it is **23, 80.383, 302.331**.

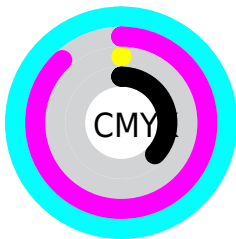
Distribution



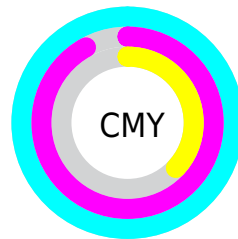
- Red (0%)
- Green (8%)
- Blue (62%)



- Red (0%)
- Yellow (7%)
- Blue (62%)



- Cyan (100%)
- Magenta (88%)
- Yellow (0%)
- Black (37%)





- Cyan (100%)
- Magenta (92%)
- Yellow (37%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 87.841, 304.254 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, 87.841, 304.254 by changing the saturation by 10% instead.

 20, 87.841,
304.254


 20, 87.841,
304.254


 100, 87.841,
304.254


 10, 87.841,
304.254


 40, 87.841,
304.254

 0, 87.841, 304.254

 50, 87.841,
304.254

 60, 87.841,
304.254

 70, 87.841,
304.254

 80, 87.841,
304.254

 90, 87.841,

304.254

■ 20, 87.841,
304.254

■ 20, 87.841,
304.254

■ 20, 87.791,
304.309

■ 23, 80.383,
302.331

■ 26, 71.365,
299.850

■ 31, 61.686,
297.231

■ 35, 51.971,
294.703

■ 40, 42.501,
292.398

■ 45, 33.364,
290.366

■ 50, 24.568,
288.607

■ 56, 16.093,
287.101

■ 61, 7.914, 285.816

Harmonies

Complementary

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



20, 87.841, 304.254



58, 62.755, 94.394

Rectangle

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



20, 87.841, 304.254



20, 87.841, 354.254



20, 87.841, 124.254



20, 87.841, 174.254

Sweetspot

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



20, 87.791, 304.309



64, 30.362, 288.700



59, 40.214, 178.340



31, 21.031, 289.372



92, 0.011, 296.813



44, 0.006, 296.813

Same Dimension

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



20, 87.791, 304.309



27, 107.683, 304.657



22, 90.189, 309.414



31, 4.438, 285.727



17, 80.456, 304.122



1, 5.767, 285.017

Inverse Universe

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



33, 68.431, 34.065



43, 83.791, 35.005



60, 73.398, 122.763



31, 3.575, 10.053



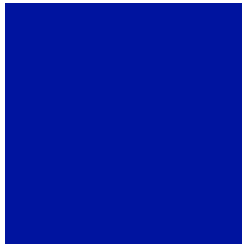
29, 62.788, 33.571



1, 4.546, 9.851

Previews

White Background



This preview shows how the CIELCh color 20, 87.841, 304.254 looks on a white background.

Color Contrast Check

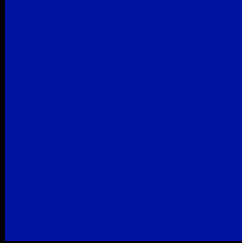
Large Text (above 18pt) WCAG AA ✓ Pass

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, 87.841, 304.254 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

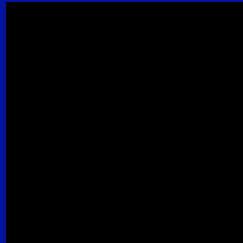
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 87.841, 304.254

Background



This preview shows how black text looks on a background with the CIELCh color 20, 87.841, 304.254.



This preview shows how white text looks on a background with the CIELCh color 20, 87.841, 304.254.

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, 87.353, 304.226

Protanopia

21, 36.227, 283.219

Deuteranopia

21, 24.947, 267.333



Tritanopia
21, 16.756, 201.193

Trichromacy



Original Color
20, 87.353, 304.226

Protanomaly
19, 57.087, 296.642

Deuteranomaly
19, 49.518, 293.663

Tritanomaly
18, 35.995, 285.337

Monochromacy



Original Color
20, 87.353, 304.226

Achromatopsia
11, 0.003, 296.813

Achromatomaly
12, 36.499, 297.121

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 87.841, 304.254 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, 20, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 20, 159)  
}
```

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, 20, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 20, 159) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 87.841, 304.254 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, 20, 159) }
```

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

```
.border{ border-color:rgb(0, 20, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 20, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 20, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 20, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 20, 159)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 87.841, 304.254 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 20, 159) }
```

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

```
.background{ background-color: rgb(0, 20,  
159) }
```

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