

Converting Colors

CIELCh(20, 88.464, 308.519)

Have a look what the booklet for
CIELCh(20, 88.464, 308.519)
contains.

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Color

CIELCh(20, 88.498, 308.536)

Conversions

Conversions Part 1

Format	Color
Hex	30019A
RGB	48, 1, 154
RGB Percent	19%, 0%, 60%
CMY	0.8114, 0.9958, 0.3958
CMYK	0.69, 0.99, 0.00, 0.40
HSL	258°, 99%, 30%
HSV	258°, 99%, 60%
XYZ	7.0728, 2.9891, 30.8035
YIQ	32.4950, -21.1010, 57.5470

Conversions

Conversions Part 2

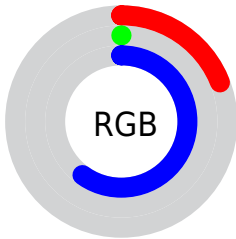
Format	Color
R _Y B	48, 1, 154
Decimal	3146138
CIE Lab	20.00, 55.13, -69.22
CIE LCh	20, 88.498, 308.536
Yxy	2.9891, 0.1731, 0.0731
Android (android.graphics.Color)	4281336218 (0xFF30019A)
YUV	32.4950, 59.9020, 13.5979
Hunter-Lab	17.2889, 42.7679, -93.5346

Details

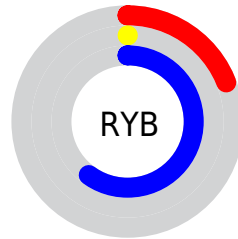
The CIELCh color **20, 88.498, 308.536** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **58, 70.032, 119.979**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 88.418, 308.421**, and **8, 67.812, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **20, 88.874, 308.554**, and if you desaturate by 10%, it is **22, 83.161, 308.460**.

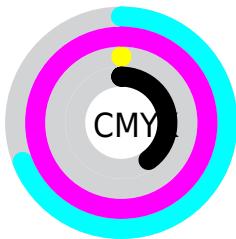
Distribution



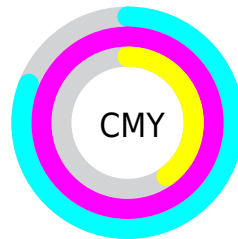
- Red (19%)
- Green (0%)
- Blue (60%)



- Red (19%)
- Yellow (0%)
- Blue (60%)



- Cyan (69%)
- Magenta (99%)
- Yellow (0%)
- Black (40%)





- Cyan (81%)
- Magenta (100%)
- Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 88.498, 308.536 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, 88.498, 308.536 by changing the saturation by 10% instead.

 20, 88.498,
308.536


 20, 88.498,
308.536


 100, 88.498,
308.536


 10, 88.498,
308.536


 40, 88.498,
308.536

 0, 88.498, 308.536

 50, 88.498,
308.536

 60, 88.498,
308.536

 70, 88.498,
308.536

 80, 88.498,
308.536

 90, 88.498,

308.536

■ 20, 88.498,
308.536

■ 20, 88.498,
308.536

■ 20, 88.874,
308.554

■ 22, 83.161,
308.460

■ 26, 75.882,
308.080

■ 30, 66.926,
307.387

■ 34, 57.121,
306.541

■ 39, 47.032,
305.651

■ 44, 36.983,
304.787

■ 49, 27.141,
303.983

■ 54, 17.582,
303.255

■ 59, 8.333, 302.606

Harmonies

Complementary

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



20, 88.498, 308.536



58, 70.032, 119.979

Rectangle

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



20, 88.498, 308.536



20, 88.498, 358.536



20, 88.498, 128.536



20, 88.498, 178.536

Sweetspot

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



20, 88.499, 308.537



62, 34.641, 304.083



43, 33.260, 255.029



30, 23.973, 304.394



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



20, 88.499, 308.537



27, 108.668, 308.369



31, 80.608, 320.826



30, 5.031, 302.601



18, 82.900, 308.631



0, 5.355, 301.884

Inverse Universe

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



34, 63.166, 344.992



45, 76.845, 345.568



56, 80.367, 134.517



30, 4.788, 335.169



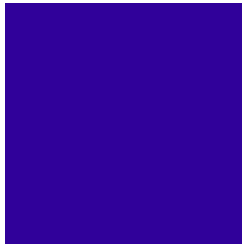
31, 59.138, 344.933



1, 5.095, 335.061

Previews

White Background



This preview shows how the CIE LCh color 20, 88.498, 308.536 looks on a white background.

Color Contrast Check

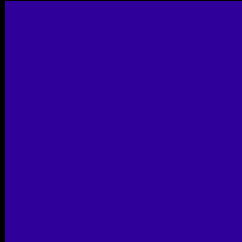
Large Text (above 18pt) WCAG AA ✓ Pass

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, 88.498, 308.536 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

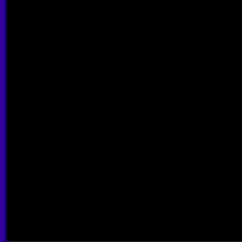
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 88.498, 308.536

Background



This preview shows how black text looks on a background with the CIELCh color 20, 88.498, 308.536.



This preview shows how white text looks on a background with the CIELCh color 20, 88.498, 308.536.

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, 88.498, 308.536

Protanopia

21, 36.784, 283.299

Deuteranopia

21, 25.512, 267.852



Tritanopia
21, 16.738, 206.011

Trichromacy



Original Color
20, 88.498, 308.536

Protanomaly
18, 60.367, 300.132

Deuteranomaly
18, 52.972, 298.155

Tritanomaly
17, 40.057, 293.133

Monochromacy



Original Color
20, 88.498, 308.536

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 39.696, 307.118

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 88.498, 308.536 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(48, 1, 154)` looks like.

```
.text, #text, p{  
    color:rgb(48, 1, 154)  
}
```

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(48, 1, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 1, 154) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 88.498, 308.536 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(48, 1, 154) }
```

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

```
.border{ border-color:rgb(48, 1, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 1, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 1, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 1, 154);  
box-shadow:4px 4px 4px 4px rgb(48, 1, 154)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 88.498, 308.536 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 1, 154) }
```

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

```
.background{ background-color: rgb(48, 1,  
154) }
```

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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