

Converting Colors

CIELCh(18, 51.457, 283.040)

Have a look what the booklet for
CIELCh(18, 51.457, 283.040)
contains.

CIELCh(20, 49.718, 292.630)	3
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Color

CIELCh(20, 49.718, 292.630)

Conversions

Conversions Part 1

Format	Color
Hex	002B75
RGB	0, 43, 117
RGB Percent	0%, 17%, 46%
CMY	1.0000, 0.8314, 0.5420
CMYK	1.00, 0.63, 0.00, 0.54
HSL	218°, 100%, 23%
HSV	218°, 100%, 46%
XYZ	4.0266, 2.9891, 17.1257
YIQ	38.5790, -49.3820, 13.8980

Conversions

Conversions Part 2

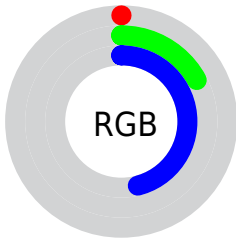
Format	Color
RYB	0, 31, 117
Decimal	11125
CIELab	20.00, 19.13, -45.89
CIELCh	20, 49.718, 292.630
Yxy	2.9891, 0.1668, 0.1238
Android (android.graphics.Color)	4278201205 (0xFF002B75)
YUV	38.5790, 38.6616, -33.8338
Hunter-Lab	17.2889, 11.3176, -46.6282

Details

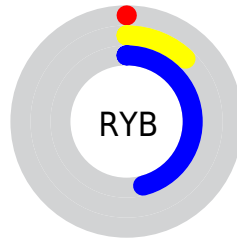
The CIELCh color **20, 49.718, 292.630** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **35, 46.333, 73.720**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 49.753, 292.858**, and **4, 47.507, 303.049** is the 20% darker color. If you saturate the color by 10%, you get **20, 49.681, 292.890**, and if you desaturate by 10%, it is **23, 44.260, 289.486**.

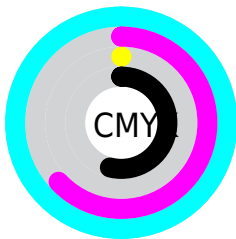
Distribution



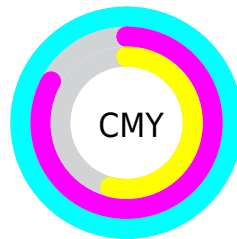
- Red (0%)
- Green (17%)
- Blue (46%)



- Red (0%)
- Yellow (12%)
- Blue (46%)



- Cyan (100%)
- Magenta (63%)
- Yellow (0%)
- Black (54%)



- Cyan (100%)
- Magenta (83%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 49.718, 292.630 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, 49.718, 292.630 by changing the saturation by 10% instead.

■ 20, 49.718,
292.630

■ 20, 49.718,
292.630

■ 100, 49.718,
292.630

■ 10, 49.718,
292.630

■ 40, 49.718,
292.630

■ 0, 49.718, 292.630

■ 50, 49.718,
292.630

■ 60, 49.718,
292.630

■ 70, 49.718,
292.630

■ 80, 49.718,
292.630

■ 90, 49.718,

292.630

■ 20, 49.718,
292.630

■ 20, 49.718,
292.630

■ 20, 49.681,
292.890

■ 23, 44.260,
289.486

■ 25, 38.970,
285.911

■ 28, 33.811,
282.577

■ 31, 28.772,
279.574

■ 34, 23.828,
276.931

■ 37, 18.956,
274.638

■ 40, 14.143,
272.665

■ 43, 9.381, 270.973

■ 46, 4.668, 269.530

Harmonies

Complementary

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



20, 49.718, 292.630



35, 46.333, 73.720

Rectangle

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



20, 49.718, 292.630



20, 49.718, 342.630



20, 49.718, 112.630



20, 49.718, 162.630

Sweetspot

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



20, 49.681, 292.890



52, 17.653, 272.809



43, 43.151, 156.850



25, 11.992, 273.433



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



20, 49.681, 292.890



27, 62.103, 293.945



12, 74.429, 306.898



23, 2.636, 269.405



21, 51.655, 293.095



45, 92.785, 295.259

Inverse Universe

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



23, 47.693, 12.331



32, 58.200, 13.857



46, 54.911, 109.678



23, 3.084, 352.139



25, 49.356, 12.622



53, 84.425, 15.864

Previews

White Background



This preview shows how the CIE LCh color 20, 49.718, 292.630 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 CIE LCh color 20, 49.718, 292.630 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

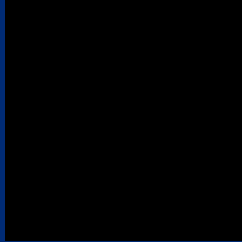
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 49.718, 292.630

Background



This preview shows how black text looks on a background with the CIELCh color 20, 49.718, 292.630.



This preview shows how white text looks on a background with the CIELCh color 20, 49.718, 292.630.

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, 49.822, 292.947

Protanopia

20, 36.288, 283.649

Deuteranopia

20, 25.476, 268.966



Tritanopia
20, 16.442, 203.764

Trichromacy



Original Color
20, 49.822, 292.947

Protanomaly
20, 41.427, 287.946

Deuteranomaly
20, 33.815, 281.486

Tritanomaly
20, 21.787, 260.431

Monochromacy



Original Color
20, 49.822, 292.947

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 19.259, 279.914

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 49.718, 292.630 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, 43, 117)` looks like.

```
.text, #text, p{  
    color:rgb(0, 43, 117)  
}
```

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, 43, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 43, 117) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 49.718, 292.630 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, 43, 117) }
```

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

```
.border{ border-color:rgb(0, 43, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 43, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 43, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 43, 117);  
box-shadow:4px 4px 4px 4px rgb(0, 43, 117)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 49.718, 292.630 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 43, 117) }
```

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

```
.background{ background-color: rgb(0, 43,  
117) }
```

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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