

Converting Colors

CIELCh(20, 48.351, 304.532)

Have a look what the booklet for
CIELCh(20, 48.351, 304.532)
contains.

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Color

CIELCh(20, 48.943, 304.610)

Conversions

Conversions Part 1

Format	Color
Hex	32236C
RGB	50, 35, 108
RGB Percent	20%, 14%, 42%
CMY	0.8028, 0.8619, 0.5754
CMYK	0.54, 0.67, 0.00, 0.58
HSL	252°, 51%, 28%
HSV	252°, 67%, 42%
XYZ	4.6578, 2.9891, 14.5930
YIQ	47.8070, -14.4930, 25.8830

Conversions

Conversions Part 2

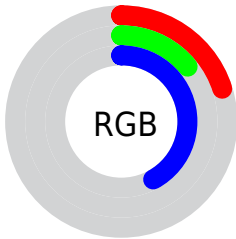
Format	Color
R_{YB}	50, 35, 108
Decimal	3285868
CIE _{Lab}	20.00, 27.80, -40.28
CIE _{LCh}	20, 48.943, 304.610
Yxy	2.9891, 0.2094, 0.1344
Android (android.graphics.Color)	4281475948 (0xFF32236C)
YUV	47.8070, 29.6751, 1.9233
Hunter-Lab	17.2889, 17.8339, -37.9426




Details

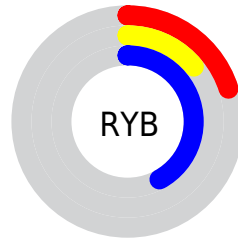
The CIELCh color **20, 48.943, 304.610** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **43, 41.264, 114.313**, and the grayscale version is **20, 0.004, 296.813**.




A 20% lighter version of the original color is **40, 48.510, 304.447**, and **3, 41.124, 301.083** is the 20% darker color. If you saturate the color by 10%, you get **17, 56.274, 305.726**, and if you desaturate by 10%, it is **24, 41.279, 303.436**.

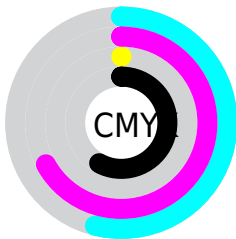
Distribution







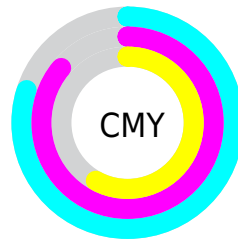
-  Red (20%)
-  Green (14%)
-  Blue (42%)






-  Red (20%)
-  Yellow (14%)
-  Blue (42%)



-  Cyan (54%)
-  Magenta (67%)
-  Yellow (0%)
-  Black (58%)





-  Cyan (80%)
-  Magenta (86%)
-  Yellow (58%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 48.943, 304.610 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, 48.943, 304.610 by changing the saturation by 10% instead.

 20, 48.943,
304.610

 20, 48.943,
304.610

 100, 48.943,
304.610


 10, 48.943,
304.610


 40, 48.943,
304.610

 0, 48.943, 304.610

 50, 48.943,
304.610

 60, 48.943,
304.610

 70, 48.943,
304.610

 80, 48.943,
304.610

 90, 48.943,

304.610

■ 20, 48.943,
304.610

■ 20, 48.943,
304.610

■ 17, 56.274,
305.726

■ 24, 41.279,
303.436

■ 14, 62.717,
306.629

■ 27, 33.606,
302.296

■ 12, 68.207,
307.390

■ 31, 26.084,
301.241

■ 11, 69.731,
307.670

■ 35, 18.784,
300.291

■ 39, 11.731,
299.451

■ 43, 4.926, 298.713

■ 47, 1.638, 118.078

■ 51, 7.974, 117.517

■ 54, 14.096,
117.033

Harmonies

Complementary

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



20, 48.943, 304.610



43, 41.264, 114.313

Rectangle

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



20, 48.943, 304.610



20, 48.943, 354.610



20, 48.943, 124.610



20, 48.943, 174.610

Sweetspot

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



20, 48.943, 304.611



49, 16.708, 299.698



37, 19.640, 225.151



24, 11.532, 299.874



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



20, 48.943, 304.611



21, 72.388, 306.280



25, 48.836, 318.178



20, 3.686, 298.817



13, 73.895, 307.601



32, 127.913, 307.193

Inverse Universe

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



27, 43.508, 335.154



33, 59.578, 336.409



41, 46.821, 132.545



21, 3.819, 331.236



26, 55.840, 338.037



55, 95.263, 338.753

Previews

White Background



This preview shows how the CIE LCh color 20, 48.943, 304.610 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, 48.943, 304.610 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

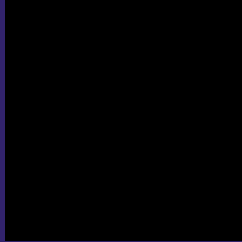
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 48.943, 304.610

Background



This preview shows how black text looks on a background with the CIELCh color 20, 48.943, 304.610.



This preview shows how white text looks on a background with the CIELCh color 20, 48.943, 304.610.

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, 48.943, 304.610

Protanopia

20, 35.728, 283.574

Deuteranopia

20, 26.025, 270.544



Tritanopia
20, 8.121, 217.767

Trichromacy



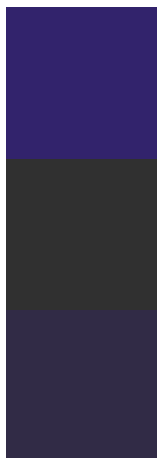
Original Color
20, 48.943, 304.610

Protanomaly
19, 40.136, 291.053

Deuteranomaly
19, 33.592, 286.455

Tritanomaly
20, 19.841, 287.519

Monochromacy



Original Color
20, 48.943, 304.610

Achromatopsia
20, 0.004, 296.813

Achromatomaly
19, 18.698, 301.650

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 48.943, 304.610 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(50, 35, 108)` looks like.

```
.text, #text, p{  
    color:rgb(50, 35, 108)  
}
```

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(50, 35, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 35, 108) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 48.943, 304.610 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(50, 35, 108) }
```

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

```
.border{ border-color:rgb(50, 35, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 35, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 35, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 35, 108);  
box-shadow:4px 4px 4px 4px rgb(50, 35,  
108) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 48.943, 304.610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 35, 108) }
```

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

```
.background{ background-color: rgb(50, 35,  
108) }
```

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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