

# Converting Colors

CIE LCh(19, 12.020, 310.748)

Have a look what the booklet for  
CIELCh(19, 12.020, 310.748)  
contains.

<b>CIELCh(19, 11.576, 310.175)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(19, 11.576, 310.175)**

# Conversions

## Conversions Part 1

Format	Color
Hex	332B3B
RGB	51, 43, 59
RGB Percent	20%, 17%, 23%
CMY	0.8000, 0.8314, 0.7686
CMYK	0.14, 0.27, 0.00, 0.77
HSL	270°, 16%, 20%
HSV	270°, 27%, 23%
XYZ	3.0180, 2.7468, 4.5081
YIQ	47.2160, -0.3680, 6.6720

# Conversions

## Conversions Part 2

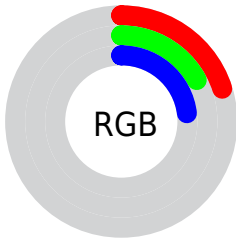
Format	Color
<b>R<sub>YB</sub></b>	51, 43, 59
Decimal	3353403
CIE Lab	19.00, 7.47, -8.84
CIE LCh	19, 11.576, 310.175
Yxy	2.7468, 0.2938, 0.2674
Android (android.graphics.Color)	4281543483 (0xFF332B3B)
YUV	47.2160, 5.8095, 3.3186
Hunter-Lab	16.5735, 3.5007, -4.5259

# Details

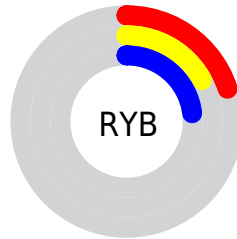
The CIELCh color **19, 11.576, 310.175** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **24, 11.210, 127.997**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 11.805, 311.680**, and **0, 6.884, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **17, 16.008, 310.634**, and if you desaturate by 10%, it is **21, 7.222, 309.736**.

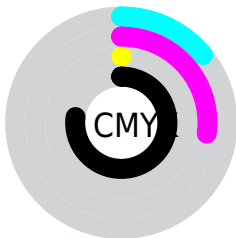
# Distribution



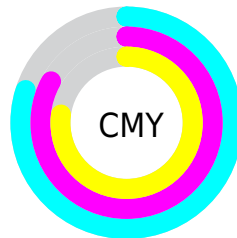
- Red (20%)
- Green (17%)
- Blue (23%)



- Red (20%)
- Yellow (17%)
- Blue (23%)



- Cyan (14%)
- Magenta (27%)
- Yellow (0%)
- Black (77%)




- Cyan (80%)
- Magenta (83%)
- Yellow (77%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 19, 11.576, 310.175 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 19, 11.576, 310.175 by changing the saturation by 10% instead.




 19, 11.576,  
310.175


 19, 11.576,  
310.175


 100, 11.576,  
310.175


 9, 11.576, 310.175


 39, 11.576,  
310.175

 0, 11.576, 310.175

 49, 11.576,  
310.175

 59, 11.576,  
310.175

 69, 11.576,  
310.175

 79, 11.576,  
310.175

 89, 11.576,

310.175

99, 11.576,  
310.175

19, 11.576,  
310.175

19, 11.576,  
310.175

17, 16.008,  
310.634

21, 7.222, 309.736

15, 20.489,  
311.104

23, 2.968, 309.321

25, 1.180, 129.006

13, 24.963,  
311.565

28, 5.218, 128.633

11, 29.343,  
311.989

30, 9.147, 128.322

32, 12.968,  
128.045

9, 33.499, 312.333

■ 7, 37.268, 312.528

■ 34, 16.687,  
127.798

■ 6, 40.765, 312.503

■ 36, 20.306,  
127.579

■ 5, 41.732, 312.460

■ 38, 23.832,  
127.386

# Harmonies

# Complementary

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



19, 11.576, 310.175



24, 11.210, 127.997

# Rectangle

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



19, 11.576, 310.175



19, 11.576, 0.175



19, 11.576, 130.175



19, 11.576, 180.175

# Sweetspot

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



19, 11.575, 310.174



30, 4.149, 309.372



21, 6.195, 257.010



14, 2.896, 309.400



68, 0.008, 296.813



15, 0.003, 296.813





# Same Dimension

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



19, 11.575, 310.174



24, 17.634, 310.513



20, 12.963, 325.240



10, 2.390, 309.377



12, 59.884, 312.641



35, 112.469, 311.762



# Inverse Universe

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



20, 9.268, 345.731



25, 14.056, 346.411



23, 12.948, 142.496



10, 1.924, 344.194



18, 41.220, 359.022



48, 76.218, 2.565



# Previews

## White Background



This preview shows how the CIE LCh color 19, 11.576, 310.175 looks on a white background.

## Color Contrast Check

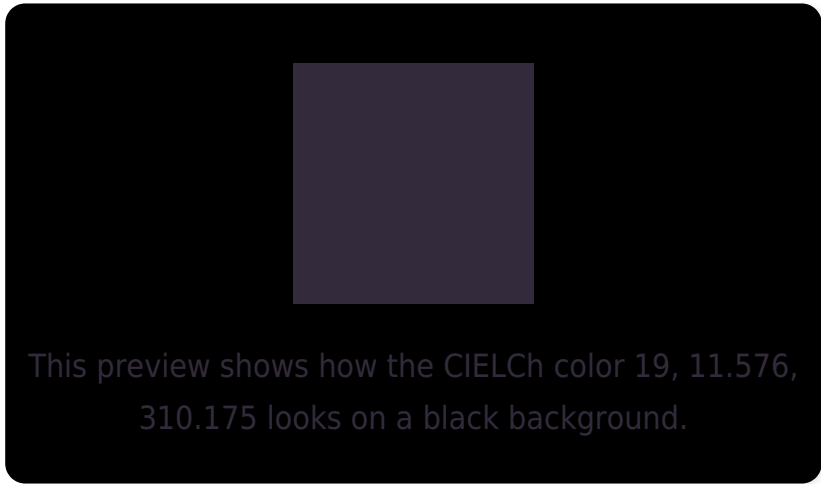
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## 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 19, 11.576, 310.175

## Background



This preview shows how black text looks on a background with the CIELCh color 19, 11.576, 310.175.



This preview shows how white text looks on a background with the CIELCh color 19, 11.576, 310.175.

# 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

19, 11.576, 310.175


### Protanopia

19, 10.358, 283.518

### Deuteranopia

19, 9.615, 289.991





**Tritanopia**  
19, 3.335, 324.783

# Trichromacy



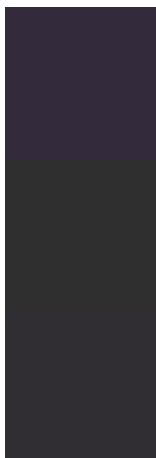
**Original Color**  
19, 11.576, 310.175

**Protanomaly**  
19, 10.296, 292.650

**Deuteranomaly**  
19, 10.421, 299.706

**Tritanomaly**  
19, 6.786, 315.260

# Monochromacy



**Original Color**  
19, 11.576, 310.175

**Achromatopsia**  
19, 0.004, 296.813

**Achromatomaly**  
19, 3.559, 305.904

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 19, 11.576, 310.175 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(51, 43, 59)` looks like.

```
.text, #text, p{  
    color:rgb(51, 43, 59)  
}
```

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(51, 43, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 43, 59) }
```

## Border

The CSS property to change the border of an element to CIELCh 19, 11.576, 310.175 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(51, 43, 59) }
```

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

```
.border{ border-color:rgb(51, 43, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 43, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 43, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 43, 59);  
box-shadow:4px 4px 4px 4px rgb(51, 43, 59)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 19, 11.576, 310.175 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 43, 59) }
```

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

```
.background{ background-color: rgb(51, 43,  
59) }
```

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