

# Converting Colors

CIELCh(19, 37.219, 331.199)

Have a look what the booklet for  
CIELCh(19, 37.219, 331.199)  
contains.

<b>CIELCh(19, 37.570, 331.207)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

**Color**

**CIELCh(19, 37.570, 331.207)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4F1749
RGB	79, 23, 73
RGB Percent	31%, 9%, 29%
CMY	0.6906, 0.9102, 0.7141
CMYK	0.00, 0.71, 0.08, 0.69
HSL	306°, 55%, 20%
HSV	306°, 71%, 31%
XYZ	4.7203, 2.7468, 6.5688
YIQ	45.4440, 17.3260, 27.4220

# Conversions

## Conversions Part 2

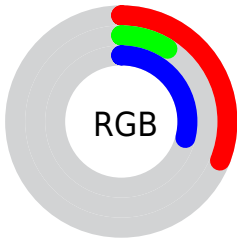
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 23, 73
Decimal	5183305
CIELab	19.00, 32.93, -18.10
CIElCh	19, 37.570, 331.207
Yxy	2.7468, 0.3363, 0.1957
Android (android.graphics.Color)	4283373385 (0xFF4F1749)
YUV	45.4440, 13.5851, 29.4286
Hunter-Lab	16.5735, 21.8353, -11.8978

# Details

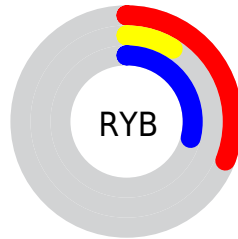
The CIELCh color **19, 37.570, 331.207** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **29, 38.342, 141.384**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 37.692, 331.028**, and **4, 22.966, 332.219** is the 20% darker color. If you saturate the color by 10%, you get **18, 40.982, 331.688**, and if you desaturate by 10%, it is **21, 33.334, 330.709**.

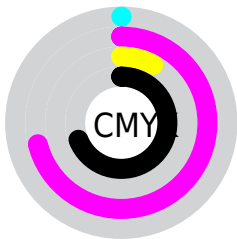
# Distribution



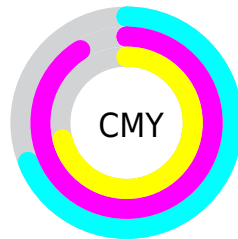
- Red (31%)
- Green (9%)
- Blue (29%)



- Red (31%)
- Yellow (9%)
- Blue (29%)



- Cyan (0%)
- Magenta (71%)
- Yellow (8%)
- Black (69%)




- Cyan (69%)
- Magenta (91%)
- Yellow (71%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 19, 37.570, 331.207 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, 37.570, 331.207 by changing the saturation by 10% instead.



 19, 37.570,  
331.207

 19, 37.570,  
331.207


 100, 37.570,  
331.207

 9, 37.570, 331.207


 39, 37.570,  
331.207

 0, 37.570, 331.207

 49, 37.570,  
331.207


 59, 37.570,  
331.207


 69, 37.570,  
331.207


 79, 37.570,  
331.207


 89, 37.570,


331.207


 99, 37.570,  
331.207


 19, 37.570,  
331.207


 19, 37.570,  
331.207


 18, 40.982,  
331.688


 21, 33.334,  
330.709


 17, 43.503,  
332.152

 22, 28.472,  
330.192

 16, 45.730,  
332.552

 24, 23.176,  
329.662

 26, 17.616,  
329.124

 29, 11.929,  
328.583

■ 31, 6.216, 328.038

■ 33, 0.550, 327.274

■ 36, 5.022, 147.058

■ 38, 10.471,  
146.551

# Harmonies

# Complementary

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



19, 37.570, 331.207



29, 38.342, 141.384

# Rectangle

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



19, 37.570, 331.207



19, 37.570, 21.207



19, 37.570, 151.207



19, 37.570, 201.207

# Sweetspot

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



19, 37.569, 331.207



37, 14.774, 328.624



12, 39.826, 302.418



17, 9.876, 328.698



73, 0.009, 296.813



21, 0.004, 296.813





# Same Dimension

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



19, 37.569, 331.207



24, 51.125, 332.017



18, 28.537, 358.566



14, 3.078, 327.908



22, 54.469, 332.722



53, 98.010, 333.086



# Inverse Universe

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



19, 37.569, 331.207



24, 51.125, 332.017



30, 25.605, 161.778



14, 3.078, 327.908



22, 54.469, 332.722

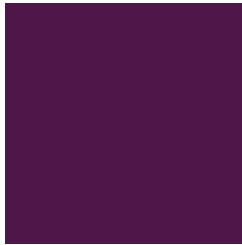


53, 98.010, 333.086



# Previews

## White Background



This preview shows how the CIELCh color 19, 37.570, 331.207 looks on a white background.

## Color Contrast Check

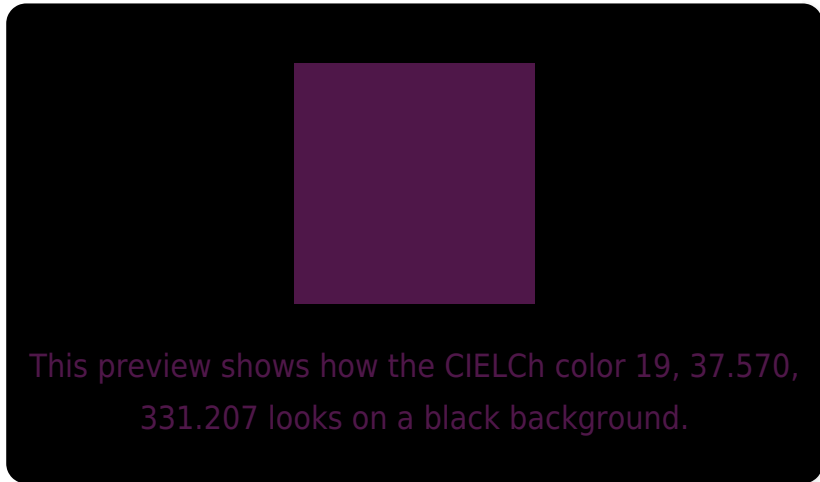
Large Text (above 18pt) WCAG AA ✓ Pass

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

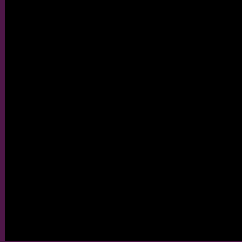
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 19, 37.570, 331.207**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 19, 37.570, 331.207.



This preview shows how white text looks on a background with the CIELCh color 19, 37.570, 331.207.

# 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, 37.570, 331.207

### Protanopia

20, 32.895, 285.485

### Deuteranopia

20, 15.194, 282.232





**Tritanopia**  
19, 20.491, 21.078

# Trichromacy



**Original Color**  
19, 37.570, 331.207

**Protanomaly**  
18, 33.012, 298.737

**Deuteranomaly**  
18, 22.934, 311.105

**Tritanomaly**  
19, 23.828, 354.633

# Monochromacy



**Original Color**  
19, 37.570, 331.207

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
18, 15.277, 329.017

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 19, 37.570, 331.207 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(79, 23, 73)` looks like.

```
.text, #text, p{  
    color:rgb(79, 23, 73)  
}
```

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(79, 23, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(79, 23, 73) }
```

## Border

The CSS property to change the border of an element to CIELCh 19, 37.570, 331.207 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(79, 23, 73) }
```

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

```
.border{ border-color:rgb(79, 23, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(79, 23, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(79, 23, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(79, 23, 73);  
box-shadow:4px 4px 4px 4px rgb(79, 23, 73)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 19, 37.570, 331.207 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(79, 23, 73) }
```

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

```
.background{ background-color: rgb(79, 23,  
73) }
```

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