

# Converting Colors

CIELCh(19, 22.096, 346.785)

Have a look what the booklet for  
CIELCh(19, 22.096, 346.785)  
contains.

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**Color**

**CIELCh(19, 22.224, 346.476)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	482136
RGB	72, 33, 54
RGB Percent	28%, 13%, 21%
CMY	0.7170, 0.8700, 0.7877
CMYK	0.00, 0.54, 0.25, 0.72
HSL	328°, 37%, 21%
HSV	328°, 54%, 28%
XYZ	3.9009, 2.7468, 3.8320
YIQ	47.0550, 16.5030, 14.7990

# Conversions

## Conversions Part 2

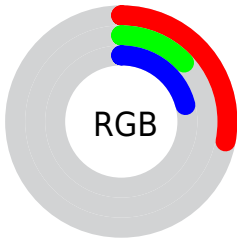
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	72, 33, 54
Decimal	4727094
CIE <sub>Lab</sub>	19.00, 21.61, -5.20
CIE <sub>LCh</sub>	19, 22.224, 346.476
Yxy	2.7468, 0.3722, 0.2621
Android (android.graphics.Color)	4282917174 (0xFF482136)
YUV	47.0550, 3.4239, 21.8768
Hunter-Lab	16.5735, 13.0100, -2.1072

# Details

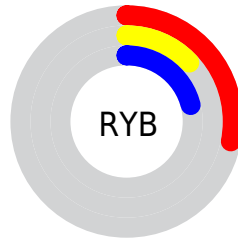
The CIELCh color **19, 22.224, 346.476** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **27, 21.319, 156.707**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 22.238, 346.198**, and **3, 11.842, 1.559** is the 20% darker color. If you saturate the color by 10%, you get **17, 25.851, 347.780**, and if you desaturate by 10%, it is **21, 18.275, 345.349**.

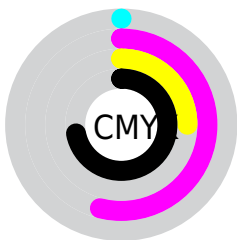
# Distribution



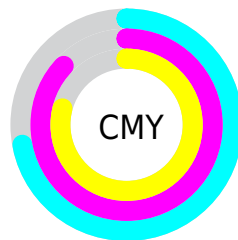
- Red (28%)
- Green (13%)
- Blue (21%)



- Red (28%)
- Yellow (13%)
- Blue (21%)



- Cyan (0%)
- Magenta (54%)
- Yellow (25%)
- Black (72%)




- Cyan (72%)
- Magenta (87%)
- Yellow (79%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 22.224, 346.476 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, 22.224, 346.476 by changing the saturation by 10% instead.




 19, 22.224,  
346.476

 19, 22.224,  
346.476

 100, 22.224,  
346.476


 9, 22.224, 346.476


 39, 22.224,  
346.476

 0, 22.224, 346.476

 49, 22.224,  
346.476

 59, 22.224,  
346.476

 69, 22.224,  
346.476

 79, 22.224,  
346.476


 89, 22.224,


346.476


 99, 22.224,  
346.476


 19, 22.224,  
346.476


 19, 22.224,  
346.476

 17, 25.851,  
347.780


 21, 18.275,  
345.349

 16, 28.994,  
349.319

 23, 14.151,  
344.354


 14, 31.480,  
351.173

 25, 9.959, 343.459

 13, 33.544,  
353.205

 27, 5.777, 342.638

 30, 1.655, 341.817

 13, 34.917,  
354.282

 32, 2.375, 161.329

■ 34, 6.294, 160.646

■ 37, 10.097,  
160.044

■ 39, 13.781,  
159.488

# Harmonies

# Complementary

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



19, 22.224, 346.476



27, 21.319, 156.707

# Rectangle

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



19, 22.224, 346.476



19, 22.224, 36.476



19, 22.224, 166.476



19, 22.224, 216.476

# Sweetspot

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



19, 22.223, 346.477



35, 8.225, 342.843



17, 27.838, 309.974



17, 5.604, 342.921



72, 0.009, 296.813



20, 0.004, 296.813





# Same Dimension

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



19, 22.223, 346.477



23, 32.459, 348.291



18, 20.133, 21.153



13, 2.256, 342.203



20, 43.196, 356.011



49, 78.125, 358.980



# Inverse Universe

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



19, 22.223, 346.477



23, 32.459, 348.291



28, 14.669, 192.167



13, 2.256, 342.203



20, 43.196, 356.011

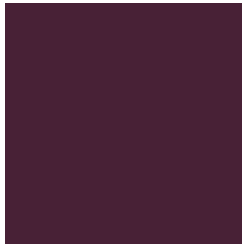


49, 78.125, 358.980



# Previews

## White Background



This preview shows how the CIE LCh color 19, 22.224, 346.476 looks on a white background.

## Color Contrast Check

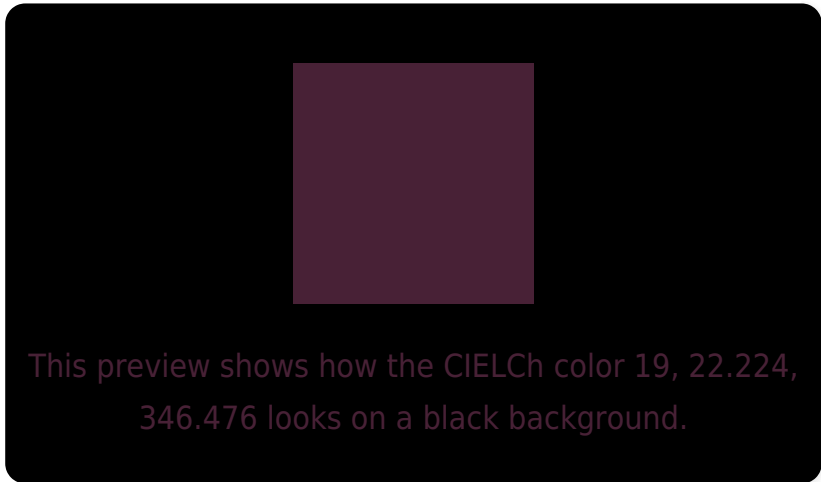
Large Text (above 18pt) WCAG AA ✓ Pass

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

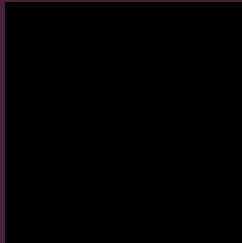
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 19, 22.224, 346.476**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 19, 22.224, 346.476.



This preview shows how white text looks on a background with the CIELCh color 19, 22.224, 346.476.

# 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, 22.224, 346.476

### Protanopia

19, 11.701, 285.020

### Deuteranopia

19, 4.347, 309.492





**Tritanopia**  
19, 17.801, 17.610

# Trichromacy



**Original Color**  
19, 22.224, 346.476

**Protanomaly**  
19, 14.111, 314.710

**Deuteranomaly**  
19, 11.028, 333.943

**Tritanomaly**  
19, 18.504, 3.355

# Monochromacy



**Original Color**  
19, 22.224, 346.476

**Achromatopsia**  
19, 0.004, 296.813

**Achromatomaly**  
19, 8.553, 341.724

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 19, 22.224, 346.476 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(72, 33, 54)` looks like.

```
.text, #text, p{  
    color:rgb(72, 33, 54)  
}
```

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(72, 33, 54) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 33, 54) }
```

## Border

The CSS property to change the border of an element to CIELCh 19, 22.224, 346.476 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(72, 33, 54) }
```

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

```
.border{ border-color:rgb(72, 33, 54) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 33, 54)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 33, 54); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 33, 54);  
box-shadow:4px 4px 4px 4px rgb(72, 33, 54)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 19, 22.224, 346.476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 33, 54) }
```

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

```
.background{ background-color: rgb(72, 33,  
54) }
```

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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