

# Converting Colors

CIELCh(18, 21.952, 343.839)

Have a look what the booklet for  
CIELCh(18, 21.952, 343.839)  
contains.

<b>CIELCh(18, 22.306, 344.234)</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(18, 22.306, 344.234)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	451F35
RGB	69, 31, 53
RGB Percent	27%, 12%, 21%
CMY	0.7287, 0.8778, 0.7915
CMYK	0.00, 0.55, 0.23, 0.73
HSL	325°, 38%, 20%
HSV	325°, 55%, 27%
XYZ	3.6066, 2.5180, 3.6831
YIQ	44.8700, 15.5860, 14.8980

# Conversions

## Conversions Part 2

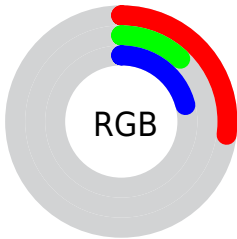
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	69, 31, 53
Decimal	4529973
CIE <sub>Lab</sub>	18.00, 21.47, -6.06
CIE <sub>LCh</sub>	18, 22.306, 344.234
Yxy	2.5180, 0.3677, 0.2567
Android (android.graphics.Color)	4282720053 (0xFF451F35)
YUV	44.8700, 4.0081, 21.1620
Hunter-Lab	15.8683, 12.8006, -2.6535

# Details

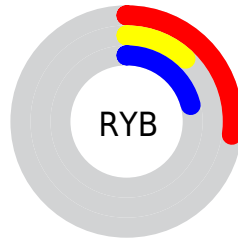
The CIELCh color **18, 22.306, 344.234** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **26, 21.626, 154.748**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 22.299, 344.193**, and **2, 8.844, 0.793** is the 20% darker color. If you saturate the color by 10%, you get **16, 25.839, 345.420**, and if you desaturate by 10%, it is **20, 18.439, 343.197**.

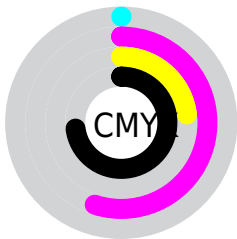
# Distribution



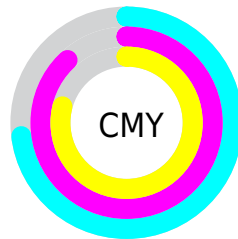
- Red (27%)
- Green (12%)
- Blue (21%)



- Red (27%)
- Yellow (12%)
- Blue (21%)



- Cyan (0%)
- Magenta (55%)
- Yellow (23%)
- Black (73%)



- Cyan (73%)
- Magenta (88%)
- Yellow (79%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 18, 22.306, 344.234 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 18, 22.306, 344.234 by changing the saturation by 10% instead.




 18, 22.306,  
344.234

 18, 22.306,  
344.234


 100, 22.306,  
344.234


 8, 22.306, 344.234


 38, 22.306,  
344.234

 0, 22.306, 344.234

 48, 22.306,  
344.234


 58, 22.306,  
344.234


 68, 22.306,  
344.234


 78, 22.306,  
344.234


 88, 22.306,


344.234


 98, 22.306,  
344.234


 18, 22.306,  
344.234


 18, 22.306,  
344.234


 16, 25.839,  
345.420


 20, 18.439,  
343.197

 15, 28.879,  
346.802


 22, 14.383,  
342.270

 14, 31.260,  
348.448

 24, 10.243,  
341.429

 13, 33.362,  
350.162

 26, 6.099, 340.651

 12, 34.550,  
350.931

 28, 2.004, 339.885

 31, 2.009, 159.405

■ 33, 5.921, 158.733

■ 35, 9.723, 158.148

■ 37, 13.411,  
157.605

# Harmonies

# Complementary

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



18, 22.306, 344.234



26, 21.626, 154.748

# Rectangle

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



18, 22.306, 344.234



18, 22.306, 34.234



18, 22.306, 164.234



18, 22.306, 214.234

# Sweetspot

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



18, 22.305, 344.235



34, 8.073, 340.778



16, 27.263, 308.982



16, 5.501, 340.845



71, 0.009, 296.813



19, 0.004, 296.813





# Same Dimension

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



18, 22.305, 344.235



22, 32.114, 345.898



17, 19.633, 18.772



13, 2.320, 340.176



20, 43.863, 352.657



49, 79.149, 355.249



# Inverse Universe

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



18, 22.305, 344.235



22, 32.114, 345.898



27, 14.606, 188.882



13, 2.320, 340.176



20, 43.863, 352.657

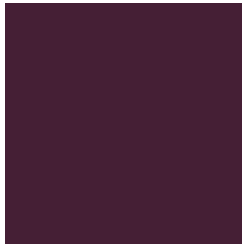


49, 79.149, 355.249



# Previews

## White Background



This preview shows how the CIE LCh color 18, 22.306, 344.234 looks on a white background.

## Color Contrast Check

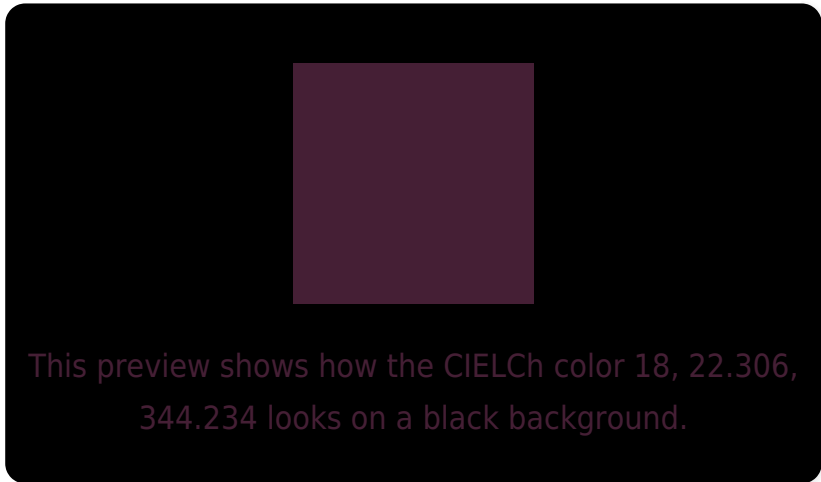
Large Text (above 18pt) WCAG AA ✓ Pass

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

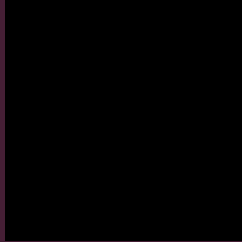
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 18, 22.306, 344.234

## Background



This preview shows how black text looks on a background with the CIELCh color 18, 22.306, 344.234.



This preview shows how white text looks on a background with the CIELCh color 18, 22.306, 344.234.

# 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

18, 22.306, 344.234

### Protanopia

18, 12.499, 284.046

### Deuteranopia

18, 4.925, 301.969





**Tritanopia**  
18, 16.929, 19.310

# Trichromacy



**Original Color**  
18, 22.306, 344.234

**Protanomaly**  
18, 14.695, 312.136

**Deuteranomaly**  
18, 11.309, 329.704

**Tritanomaly**  
18, 17.543, 4.140

# Monochromacy



**Original Color**  
18, 22.306, 344.234

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
18, 8.606, 341.782

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 18, 22.306, 344.234 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(69, 31, 53)` looks like.

```
.text, #text, p{  
    color:rgb(69, 31, 53)  
}
```

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(69, 31, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 31, 53) }
```

## Border

The CSS property to change the border of an element to CIELCh 18, 22.306, 344.234 is called "border". The border property can be set on classes, ids or directly on the HTML element.

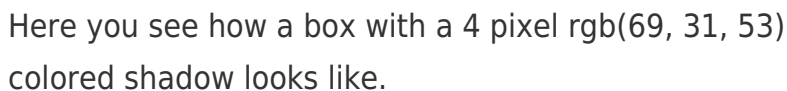
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(69, 31, 53) }
```

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

```
.border{ border-color:rgb(69, 31, 53) }
```

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



Here you see how a box with a 4 pixel `rgb(69, 31, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(69, 31, 53); -webkit-box-shadow:4px 4px 4px 4px rgb(69, 31, 53); box-shadow:4px 4px 4px 4px rgb(69, 31, 53) }
```

# Background

The CSS property to change the background color of an element to CIELCh 18, 22.306, 344.234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 31, 53) }
```

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

```
.background{ background-color: rgb(69, 31,  
53) }
```

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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