

# Converting Colors

CIELCh(40, 22.143, 306.452)

Have a look what the booklet for  
CIELCh(40, 22.143, 306.452)  
contains.

<b>CIELCh(40, 22.106, 307.020)</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(40, 22.106, 307.020)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	66587B
RGB	102, 88, 123
RGB Percent	40%, 35%, 48%
CMY	0.5997, 0.6546, 0.5174
CMYK	0.17, 0.28, 0.00, 0.52
HSL	264°, 17%, 41%
HSV	264°, 28%, 48%
XYZ	12.5620, 11.2510, 20.2716
YIQ	96.1760, -2.8910, 13.8530

# Conversions

## Conversions Part 2

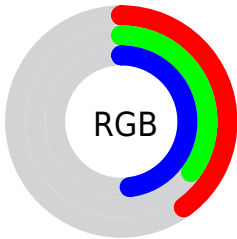
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	102, 88, 123
Decimal	6707323
CIE <sub>Lab</sub>	40.00, 13.31, -17.65
CIE <sub>LCh</sub>	40, 22.106, 307.020
Yxy	11.2510, 0.2850, 0.2552
Android (android.graphics.Color)	4284897403 (0xFF66587B)
YUV	96.1760, 13.2242, 5.1076
Hunter-Lab	33.5425, 8.1509, -12.3525

# Details

The CIELCh color `40, 22.106, 307.020` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `50, 21.104, 124.127`, and the grayscale version is `41, 0.006, 296.813`.

A 20% lighter version of the original color is `60, 22.263, 306.470`, and `20, 22.380, 306.982` is the 20% darker color. If you saturate the color by 10%, you get `36, 30.278, 307.651`, and if you desaturate by 10%, it is `44, 14.123, 306.433`.

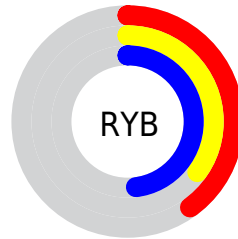
# Distribution



Red (40%)

Green (35%)

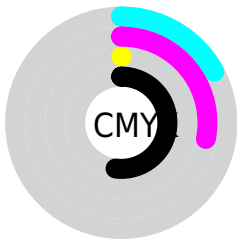
Blue (48%)



Red (40%)

Yellow (35%)

Blue (48%)

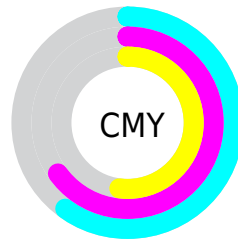


Cyan (17%)

Magenta (28%)

Yellow (0%)

Black (52%)



Cyan (60%)

Magenta (65%)


Yellow (52%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 22.106, 307.020 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 40, 22.106, 307.020 by changing the saturation by 10% instead.





 40, 22.106,  
307.020


 40, 22.106,  
307.020


 100, 22.106,  
307.020


 30, 22.106,  
307.020

 60, 22.106,  
307.020


 20, 22.106,  
307.020

 70, 22.106,  
307.020

 10, 22.106,  
307.020

 80, 22.106,  
307.020

 0, 22.106, 307.020

 90, 22.106,  
307.020

 40, 22.106,

 40, 22.106,

307.020

36, 30.278,  
307.651

32, 38.570,  
308.312

28, 46.841,  
308.969

25, 54.843,  
309.568

21, 62.178,  
310.022

19, 68.285,  
310.214

16, 73.190,  
310.211

16, 74.005,  
310.243

307.020

44, 14.123,  
306.433

48, 6.368, 305.898

52, 1.150, 125.483

56, 8.430, 125.018

60, 15.478,  
124.644

64, 22.306,  
124.319

68, 28.923,  
124.036

72, 35.341,  
123.791

76, 41.572,

123.580

# Harmonies

# Complementary

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



40, 22.106, 307.020



50, 21.104, 124.127

# Rectangle

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



40, 22.106, 307.020



40, 22.106, 357.020



40, 22.106, 127.020



40, 22.106, 177.020

# Sweetspot

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



40, 22.105, 307.020



62, 8.454, 305.938



45, 11.169, 247.558



31, 5.931, 306.002



84, 0.010, 296.813



35, 0.005, 296.813





# Same Dimension

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



40, 22.105, 307.020



49, 33.152, 307.419



42, 24.445, 323.026



24, 4.234, 305.930



16, 74.829, 310.226



38, 126.765, 309.663



# Inverse Universe

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



42, 19.098, 340.838



52, 28.389, 341.420



48, 24.307, 140.108



24, 3.721, 339.243



26, 51.830, 351.781



55, 86.439, 353.565



# Previews

## White Background



This preview shows how the CIELCh color 40, 22.106, 307.020 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 × Fail

# Black Background



This preview shows how the CIELCh color 40, 22.106, 307.020 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 40, 22.106, 307.020

## Background



This preview shows how black text looks on a background with the CIELCh color 40, 22.106, 307.020.



This preview shows how white text looks on a background with the CIELCh color 40, 22.106, 307.020.

# 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

40, 22.106, 307.020


### Protanopia

40, 20.825, 285.495

### Deuteranopia

40, 17.701, 288.089





**Tritanopia**  
40, 4.765, 316.434

# Trichromacy



**Original Color**  
40, 22.106, 307.020

**Protanomaly**  
40, 21.375, 293.364

**Deuteranomaly**  
40, 18.992, 296.351

**Tritanomaly**  
40, 10.912, 308.732

# Monochromacy



**Original Color**  
40, 22.106, 307.020

**Achromatopsia**  
41, 0.006, 296.813

**Achromatomaly**  
40, 8.207, 305.539

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 40, 22.106, 307.020 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(102, 88, 123)` looks like.

```
.text, #text, p{  
    color:rgb(102, 88, 123)  
}
```

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(102, 88, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 88, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 40, 22.106, 307.020 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(102, 88, 123) }
```

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

```
.border{ border-color:rgb(102, 88, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 88, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 88, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 88, 123);  
box-shadow:4px 4px 4px 4px rgb(102, 88,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 40, 22.106, 307.020 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 88, 123) }
```

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

```
.background{ background-color: rgb(102, 88,  
123) }
```

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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