

# Converting Colors

CIELCh(40, 18.547, 316.965)

Have a look what the booklet for  
CIELCh(40, 18.547, 316.965)  
contains.

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# Color

**CIELCh(40, 18.881, 317.168)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6B5773
RGB	107, 87, 115
RGB Percent	42%, 34%, 45%
CMY	0.5792, 0.6577, 0.5479
CMYK	0.07, 0.24, 0.00, 0.55
HSL	283°, 14%, 40%
HSV	283°, 24%, 45%
XYZ	12.6416, 11.2510, 17.8147
YIQ	96.1720, 2.9320, 12.9480

# Conversions

## Conversions Part 2

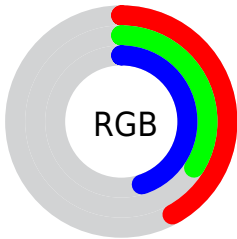
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	107, 87, 115
Decimal	7034739
CIE <sub>Lab</sub>	40.00, 13.85, -12.84
CIE <sub>LCh</sub>	40, 18.881, 317.168
Yxy	11.2510, 0.3031, 0.2698
Android (android.graphics.Color)	4285224819 (0xFF6B5773)
YUV	96.1720, 9.2822, 9.4962
Hunter-Lab	33.5425, 8.5743, -8.0097

# Details

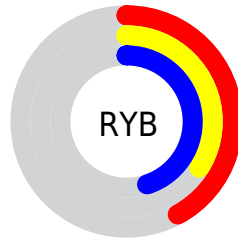
The CIELCh color  $40, 18.881, 317.168$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $46, 18.574, 135.111$ , and the grayscale version is  $41, 0.006, 296.813$ .

A 20% lighter version of the original color is  $60, 18.910, 317.526$ , and  $20, 19.268, 316.955$  is the 20% darker color. If you saturate the color by 10%, you get  $37, 26.789, 317.582$ , and if you desaturate by 10%, it is  $43, 11.019, 316.748$ .

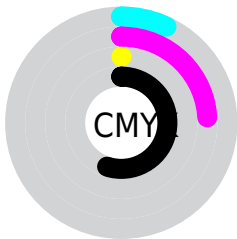
# Distribution



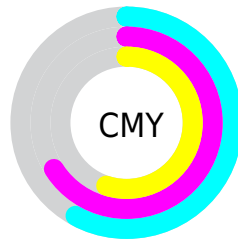
- Red (42%)
- Green (34%)
- Blue (45%)



- Red (42%)
- Yellow (34%)
- Blue (45%)



- Cyan (7%)
- Magenta (24%)
- Yellow (0%)
- Black (55%)




- Cyan (58%)
- Magenta (66%)
- Yellow (55%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 18.881, 317.168 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, 18.881, 317.168 by changing the saturation by 10% instead.





 40, 18.881,  
317.168


 40, 18.881,  
317.168


 100, 18.881,  
317.168


 30, 18.881,  
317.168

 60, 18.881,  
317.168


 20, 18.881,  
317.168


 70, 18.881,  
317.168

 10, 18.881,  
317.168

 80, 18.881,  
317.168

 0, 18.881, 317.168

 90, 18.881,  
317.168

 40, 18.881,

 40, 18.881,

317.168

37, 26.789,  
317.582

33, 34.629,  
317.973

30, 42.221,  
318.314

27, 49.314,  
318.570

25, 55.586,  
318.693

23, 60.672,  
318.631

21, 64.342,  
318.349

20, 66.334,  
318.198

317.168

43, 11.019,  
316.748

47, 3.281, 316.317

51, 4.290, 135.998


54, 11.671,  
135.618

58, 18.851,  
135.279

61, 25.828,  
134.969

65, 32.605,  
134.687

69, 39.191,  
134.433

 72, 45.592,  
134.203

# Harmonies

# Complementary

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



40, 18.881, 317.168



46, 18.574, 135.111

# Rectangle

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



40, 18.881, 317.168



40, 18.881, 7.168



40, 18.881, 137.168



40, 18.881, 187.168

# Sweetspot

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



40, 18.880, 317.168



59, 6.665, 316.448



41, 12.245, 277.010



31, 4.366, 316.465



82, 0.010, 296.813



33, 0.005, 296.813





# Same Dimension

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



40, 18.880, 317.168



50, 28.118, 317.395



41, 17.733, 331.987



23, 4.378, 316.528



22, 69.254, 318.141



48, 117.734, 317.649



# Inverse Universe

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



40, 12.926, 359.372



50, 19.354, 0.055



46, 17.658, 148.872



23, 2.951, 357.708



25, 50.688, 20.161



53, 87.589, 23.569



# Previews

## White Background



This preview shows how the CIELCh color 40, 18.881, 317.168 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, 18.881, 317.168 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

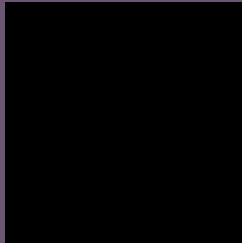
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 40, 18.881, 317.168**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 40, 18.881, 317.168.



This preview shows how white text looks on a background with the CIELCh color 40, 18.881, 317.168.

# 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, 18.881, 317.168


### Protanopia

40, 16.521, 286.267

### Deuteranopia

40, 13.475, 295.473





**Tritanopia**  
40, 7.280, 344.680

# Trichromacy



**Original Color**  
40, 18.881, 317.168

**Protanomaly**  
40, 16.600, 297.872

**Deuteranomaly**  
40, 15.141, 305.703

**Tritanomaly**  
40, 10.805, 328.864

# Monochromacy



**Original Color**  
40, 18.881, 317.168

**Achromatopsia**  
41, 0.006, 296.813

**Achromatomaly**  
40, 6.764, 316.097

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 40, 18.881, 317.168 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(107, 87, 115)` looks like.

```
.text, #text, p{  
    color:rgb(107, 87, 115)  
}
```

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(107, 87, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 87, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 40, 18.881, 317.168 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(107, 87, 115) }
```

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

```
.border{ border-color:rgb(107, 87, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 87, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 87, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 87, 115);  
box-shadow:4px 4px 4px 4px rgb(107, 87,  
115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 40, 18.881, 317.168 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 87, 115) }
```

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

```
.background{ background-color: rgb(107, 87,  
115) }
```

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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