

# Converting Colors

CIELCh(36, 13.024, 341.655)

Have a look what the booklet for  
CIELCh(36, 13.024, 341.655)  
contains.

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**Color**

**CIELCh(36, 13.002, 343.333)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	664E5B
RGB	102, 78, 91
RGB Percent	40%, 31%, 36%
CMY	0.6004, 0.6945, 0.6435
CMYK	0.00, 0.24, 0.11, 0.60
HSL	328°, 13%, 35%
HSV	328°, 24%, 40%
XYZ	10.0702, 9.0082, 11.0839
YIQ	86.6580, 10.1310, 9.1310

# Conversions

## Conversions Part 2

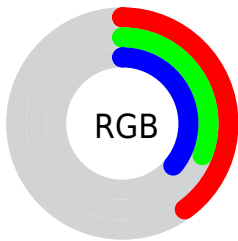
Format	Color
<a href="#">RYB</a>	102, 78, 91
Decimal	6704731
CIELab	36.00, 12.46, -3.73
CIElCh	36, 13.002, 343.333
Yxy	9.0082, 0.3339, 0.2987
Android (android.graphics.Color)	4284894811 (0xFF664E5B)
YUV	86.6580, 2.1406, 13.4549
Hunter-Lab	30.0136, 7.3667, -0.8860




# Details

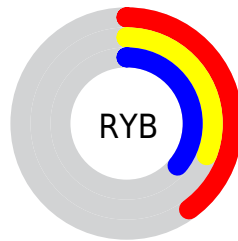
The CIELCh color  $[36, 13.002, 343.333]$  is a dark color, and the websafe version is hex `666666`. A complement of this color would be  $[41, 12.713, 159.580]$ , and the grayscale version is  $[37, 0.005, 296.813]$ .




A 20% lighter version of the original color is  $[56, 13.014, 342.992]$ , and  $[16, 13.300, 344.345]$  is the 20% darker color. If you saturate the color by 10%, you get  $[33, 18.587, 344.278]$ , and if you desaturate by 10%, it is  $[39, 7.420, 342.474]$ .

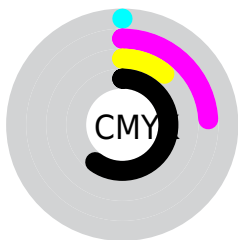
# Distribution







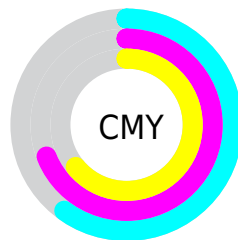
-  Red (40%)
-  Green (31%)
-  Blue (36%)






-  Red (40%)
-  Yellow (31%)
-  Blue (36%)



-  Cyan (0%)
-  Magenta (24%)
-  Yellow (11%)
-  Black (60%)




-  Cyan (60%)
-  Magenta (69%)
-  Yellow (64%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 36, 13.002, 343.333 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 36, 13.002, 343.333 by changing the saturation by 10% instead.





 36, 13.002,  
343.333


 36, 13.002,  
343.333

 100, 13.002,  
343.333


 26, 13.002,  
343.333

 56, 13.002,  
343.333


 16, 13.002,  
343.333


 66, 13.002,  
343.333

 6, 13.002, 343.333

 76, 13.002,  
343.333

 0, 13.002, 343.333

 86, 13.002,  
343.333

 96, 13.002,  
343.333

36, 13.002,  
343.333

36, 13.002,  
343.333

33, 18.587,  
344.278

39, 7.420, 342.474

30, 24.061,  
345.334

42, 1.923, 341.609

45, 3.444, 161.092

28, 29.256,  
346.541

48, 8.658, 160.392

26, 33.955,  
347.951

52, 13.707,  
159.771

24, 37.907,  
349.638

55, 18.591,  
159.197

22, 40.874,  
351.700

58, 23.315,  
158.662

21, 42.782,  
354.214

61, 27.887,  
158.162

20, 43.971,

64, 32.315,

355.840

157.694

# Harmonies

# Complementary

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



36, 13.002, 343.333



41, 12.713, 159.580

# Rectangle

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



36, 13.002, 343.333



36, 13.002, 33.333



36, 13.002, 163.333



36, 13.002, 213.333

# Sweetspot

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



36, 13.001, 343.335



53, 4.731, 341.947



35, 15.666, 308.411



26, 3.050, 341.974



78, 0.009, 296.813



28, 0.004, 296.813





# Same Dimension

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



36, 13.001, 343.335



45, 19.243, 343.819



36, 10.767, 17.127



20, 3.064, 342.092



24, 47.729, 356.376



52, 82.105, 358.820



# Inverse Universe

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



36, 13.001, 343.335



45, 19.243, 343.819



41, 9.433, 193.826



20, 3.064, 342.092



24, 47.729, 356.376

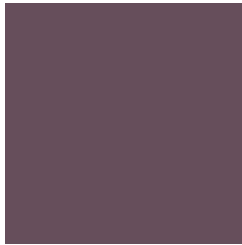


52, 82.105, 358.820



# Previews

## White Background



This preview shows how the CIELCh color 36, 13.002, 343.333 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



This preview shows how the CIE LCh color 36, 13.002, 343.333 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

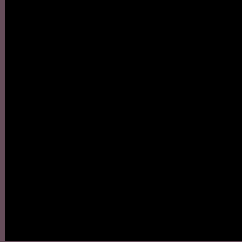
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 36, 13.002, 343.333

## Background



This preview shows how black text looks on a background with the CIELCh color 36, 13.002, 343.333.

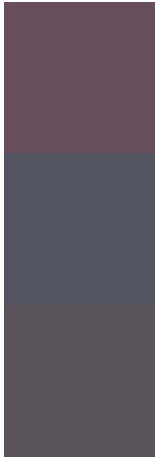


This preview shows how white text looks on a background with the CIELCh color 36, 13.002, 343.333.

# 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**  
36, 13.002, 343.333

**Protanopia**  
36, 6.841, 287.912

**Deuteranopia**  
36, 6.286, 328.116





**Tritanopia**  
36, 10.288, 359.960

# Trichromacy



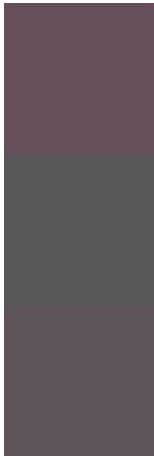
**Original Color**  
36, 13.002, 343.333

**Protanomaly**  
36, 8.203, 315.151

**Deuteranomaly**  
36, 8.180, 337.671

**Tritanomaly**  
36, 10.726, 353.712

# Monochromacy



**Original Color**  
36, 13.002, 343.333

**Achromatopsia**  
37, 0.005, 296.813

**Achromatomaly**  
37, 4.235, 344.264

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 36, 13.002, 343.333 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, 78, 91)` looks like.

```
.text, #text, p{  
    color:rgb(102, 78, 91)  
}
```

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, 78, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 78, 91) }
```

## Border

The CSS property to change the border of an element to CIELCh 36, 13.002, 343.333 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, 78, 91) }
```

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

```
.border{ border-color:rgb(102, 78, 91) }
```

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

Here you see how a box with a 4 pixel rgb(102, 78, 91) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 78, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 78, 91);  
box-shadow:4px 4px 4px 4px rgb(102, 78,  
91) }
```

# Background

The CSS property to change the background color of an element to CIELCh 36, 13.002, 343.333 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 78, 91) }
```

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

```
.background{ background-color: rgb(102, 78,  
91) }
```

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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