

# Converting Colors

CIELCh(37, 17.713, 320.820)

Have a look what the booklet for  
CIELCh(37, 17.713, 320.820)  
contains.

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**Color**

**CIELCh(37, 17.664, 321.013)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	655069
RGB	101, 80, 105
RGB Percent	40%, 31%, 41%
CMY	0.6037, 0.6860, 0.5880
CMYK	0.04, 0.24, 0.00, 0.59
HSL	290°, 14%, 36%
HSV	290°, 24%, 41%
XYZ	10.8003, 9.5379, 14.6537
YIQ	89.1290, 4.4910, 12.2270

# Conversions

## Conversions Part 2

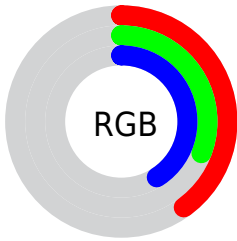
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	101, 80, 105
Decimal	6639721
CIE <sub>Lab</sub>	37.00, 13.73, -11.11
CIE <sub>LCh</sub>	37, 17.664, 321.013
Yxy	9.5379, 0.3087, 0.2726
Android (android.graphics.Color)	4284829801 (0xFF655069)
YUV	89.1290, 7.8244, 10.4109
Hunter-Lab	30.8835, 8.3770, -6.5136

# Details

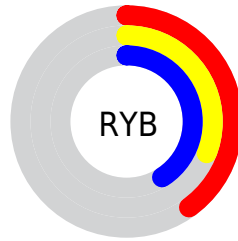
The CIELCh color  $37, 17.664, 321.013$  is a dark color, and the websafe version is hex `666699`. A complement of this color would be  $42, 17.519, 138.819$ , and the grayscale version is  $38, 0.005, 296.813$ .

A 20% lighter version of the original color is  $57, 17.771, 321.112$ , and  $17, 17.940, 321.112$  is the 20% darker color. If you saturate the color by 10%, you get  $34, 25.131, 321.438$ , and if you desaturate by 10%, it is  $40, 10.184, 320.574$ .

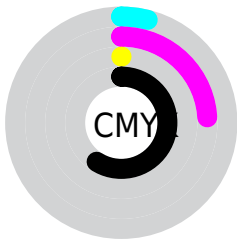
# Distribution



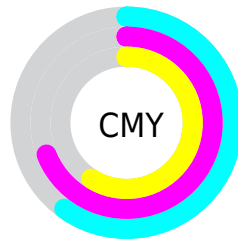
- Red (40%)
- Green (31%)
- Blue (41%)



- Red (40%)
- Yellow (31%)
- Blue (41%)



- Cyan (4%)
- Magenta (24%)
- Yellow (0%)
- Black (59%)




- Cyan (60%)
- Magenta (69%)
- Yellow (59%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 17.664, 321.013 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 37, 17.664, 321.013 by changing the saturation by 10% instead.





 37, 17.664,  
321.013


 37, 17.664,  
321.013

 100, 17.664,  
321.013


 27, 17.664,  
321.013

 57, 17.664,  
321.013


 17, 17.664,  
321.013


 67, 17.664,  
321.013

 7, 17.664, 321.013

 77, 17.664,  
321.013

 0, 17.664, 321.013

 87, 17.664,  
321.013

 97, 17.664,  
321.013

37, 17.664,  
321.013

37, 17.664,  
321.013

34, 25.131,  
321.438

40, 10.184,  
320.574

31, 32.457,  
321.835

43, 2.782, 320.107

29, 39.456,  
322.183

46, 4.485, 139.768

26, 45.890,  
322.454

50, 11.584,  
139.347

24, 51.474,  
322.617

53, 18.498,  
138.962

22, 55.919,  
322.640

56, 25.220,  
138.604


21, 59.094,  
322.508

59, 31.749,  
138.271

20, 60.965,

63, 38.089,  
137.963

322.429

 66, 44.248,  
137.679

# Harmonies

# Complementary

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



37, 17.664, 321.013



42, 17.519, 138.819

# Rectangle

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



37, 17.664, 321.013



37, 17.664, 11.013



37, 17.664, 141.013



37, 17.664, 191.013

# Sweetspot

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



37, 17.663, 321.013



55, 6.420, 320.276



36, 12.991, 285.235



27, 4.142, 320.292



79, 0.010, 296.813



29, 0.005, 296.813





# Same Dimension

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



37, 17.663, 321.013



46, 26.921, 321.272



37, 14.661, 337.300



21, 4.199, 320.358



23, 65.942, 322.360



51, 113.601, 322.031



# Inverse Universe

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



37, 11.278, 8.603



46, 17.415, 9.353



42, 14.500, 153.915



21, 2.602, 7.032



23, 52.611, 29.993

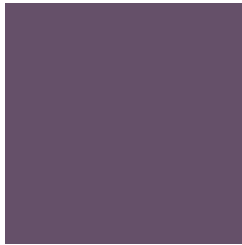


51, 93.434, 33.254



# Previews

## White Background



This preview shows how the CIELCh color 37, 17.664, 321.013 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 CIELCh color 37, 17.664, 321.013 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

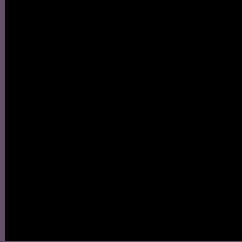
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 37, 17.664, 321.013

## Background



This preview shows how black text looks on a background with the CIELCh color 37, 17.664, 321.013.



This preview shows how white text looks on a background with the CIELCh color 37, 17.664, 321.013.

# 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

37, 17.664, 321.013

### Protanopia

37, 14.264, 286.364

### Deuteranopia

37, 11.808, 295.868





**Tritanopia**  
37, 7.814, 352.386

# Trichromacy



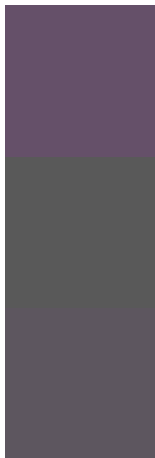
**Original Color**  
37, 17.664, 321.013

**Protanomaly**  
37, 15.030, 299.917

**Deuteranomaly**  
37, 13.554, 307.501

**Tritanomaly**  
37, 11.044, 334.531

# Monochromacy



**Original Color**  
37, 17.664, 321.013

**Achromatopsia**  
38, 0.005, 296.813

**Achromatomaly**  
37, 6.303, 318.505

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 37, 17.664, 321.013 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(101, 80, 105)` looks like.

```
.text, #text, p{  
    color:rgb(101, 80, 105)  
}
```

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(101, 80, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 80, 105) }
```

## Border

The CSS property to change the border of an element to CIELCh 37, 17.664, 321.013 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(101, 80, 105) }
```

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

```
.border{ border-color:rgb(101, 80, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 80, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 80, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 80, 105);  
box-shadow:4px 4px 4px 4px rgb(101, 80,  
105) }
```

# Background

The CSS property to change the background color of an element to CIELCh 37, 17.664, 321.013 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 80, 105) }
```

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

```
.background{ background-color: rgb(101, 80,  
105) }
```

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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