

# Converting Colors

CIELCh(17, 5.847, 31.166)

Have a look what the booklet for  
CIELCh(17, 5.847, 31.166) contains.

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# Color

**CIELCh(17, 6.102, 27.245)**

# Conversions

## Conversions Part 1

Format	Color
Hex	332726
RGB	51, 39, 38
RGB Percent	20%, 15%, 15%
CMY	0.7997, 0.8468, 0.8507
CMYK	0.00, 0.23, 0.25, 0.80
HSL	5°, 15%, 17%
HSV	5°, 25%, 20%
XYZ	2.4484, 2.3023, 2.1554
YIQ	42.4740, 7.4730, 2.2330

# Conversions

## Conversions Part 2

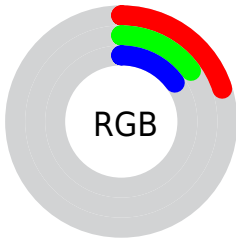
Format	Color
R <sub>Y</sub> B	51, 39, 38
Decimal	3352358
CIE Lab	17.00, 5.43, 2.79
CIE LCh	17, 6.102, 27.245
Yxy	2.3023, 0.3545, 0.3334
Android (android.graphics.Color)	4281542438 (0xFF332726)
YUV	42.4740, -2.2057, 7.4773
Hunter-Lab	15.1734, 2.2488, 2.1990

# Details

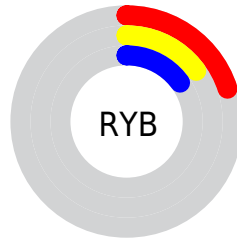
The CIELCh color **17, 6.102, 27.245** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 5.277, 205.906**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 6.191, 25.910**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 8.792, 27.866**, and if you desaturate by 10%, it is **19, 3.580, 26.771**.

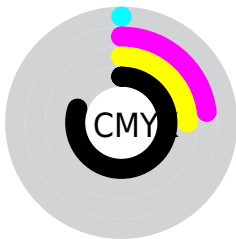
# Distribution



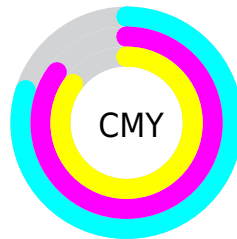
- Red (20%)
- Green (15%)
- Blue (15%)



- Red (20%)
- Yellow (15%)
- Blue (15%)



- Cyan (0%)
- Magenta (23%)
- Yellow (25%)
- Black (80%)



- Cyan (80%)
- Magenta (85%)
- Yellow (85%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 17, 6.102, 27.245 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 17, 6.102, 27.245 by changing the saturation by 10% instead.



 17, 6.102, 27.245       17, 6.102, 27.245

 100, 6.102, 27.245       7, 6.102, 27.245

 37, 6.102, 27.245       0, 6.102, 27.245

 47, 6.102, 27.245

 57, 6.102, 27.245

 67, 6.102, 27.245

 77, 6.102, 27.245

 87, 6.102, 27.245

 97, 6.102, 27.245

 17, 6.102, 27.245       17, 6.102, 27.245

15, 8.792, 27.866	19, 3.580, 26.771
14, 11.651, 28.656	20, 1.222, 26.314
12, 14.665, 29.667	22, 0.982, 206.457
11, 17.616, 29.881	24, 3.044, 206.129
10, 20.239, 28.772	26, 4.976, 205.978
9, 22.534, 27.287	27, 6.791, 205.886
8, 24.718, 26.266	29, 8.501, 205.834
7, 25.709, 25.836	31, 10.117, 205.811
	32, 11.649, 205.811

# Harmonies

# Complementary

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



17, 6.102, 27.245



20, 5.277, 205.906

# Rectangle

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



17, 6.102, 27.245



17, 6.102, 77.245



17, 6.102, 207.245



17, 6.102, 257.245

# Sweetspot

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



17, 6.101, 27.253



26, 2.250, 26.467



17, 10.354, 327.484



12, 1.567, 26.492



66, 0.008, 296.813



13, 0.003, 296.813



# Same Dimension

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



17, 6.101, 27.253



22, 9.475, 27.675



19, 5.787, 79.523



8, 1.244, 26.273



17, 43.733, 36.545



46, 91.437, 40.718





# Inverse Universe

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



20, 5.277, 205.906



26, 7.828, 205.837



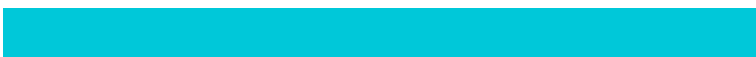
18, 5.595, 265.439



9, 1.192, 206.269



31, 21.284, 208.655

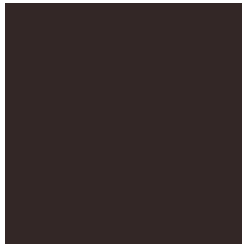


74, 40.245, 209.838



# Previews

## White Background



This preview shows how the CIELCh color 17, 6.102, 27.245 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

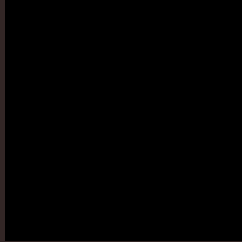
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 17, 6.102, 27.245

## Background



This preview shows how black text looks on a background with the CIELCh color 17, 6.102, 27.245.

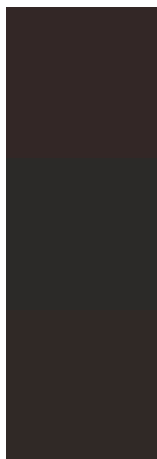


This preview shows how white text looks on a background with the CIELCh color 17, 6.102, 27.245.

# 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

17, 6.102, 27.245

### Protanopia

17, 1.463, 90.378

### Deuteranopia

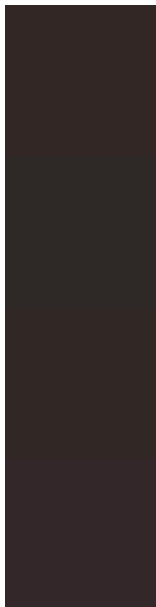
17, 4.085, 50.431



**Tritanopia**  
17, 6.226, 1.515



# Trichromacy



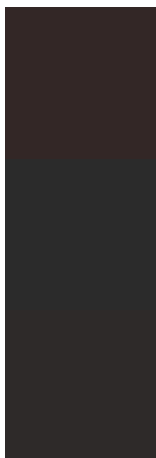
**Original Color**  
17, 6.102, 27.245

**Protanomaly**  
17, 2.835, 49.006

**Deuteranomaly**  
17, 4.740, 37.244

**Tritanomaly**  
17, 6.074, 7.758

# Monochromacy



**Original Color**  
17, 6.102, 27.245

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
17, 2.067, 39.215

# CSS Examples

## Text

The CSS property to change the color of the text to CIE LCh 17, 6.102, 27.245 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(51, 39, 38)` looks like.

```
.text, #text, p{  
    color:rgb(51, 39, 38)  
}
```

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(51, 39, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 39, 38) }
```

## Border

The CSS property to change the border of an element to CIELCh 17, 6.102, 27.245 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(51, 39, 38) }
```

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

```
.border{ border-color:rgb(51, 39, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 39, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 39, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 39, 38);  
box-shadow:4px 4px 4px 4px rgb(51, 39, 38)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 17, 6.102, 27.245 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 39, 38) }
```

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

```
.background{ background-color: rgb(51, 39,  
38) }
```

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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