

# Converting Colors

CIELCh(17, 48.610, 320.746)

Have a look what the booklet for  
CIELCh(17, 48.610, 320.746)  
contains.

<b>CIELCh(17, 48.842, 320.834)</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(17, 48.842, 320.834)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	470D57
RGB	71, 13, 87
RGB Percent	28%, 5%, 34%
CMY	0.7222, 0.9498, 0.6594
CMYK	0.18, 0.85, 0.00, 0.66
HSL	287°, 74%, 20%
HSV	287°, 85%, 34%
XYZ	4.4426, 2.3023, 9.1943
YIQ	38.7780, 10.8140, 35.3100

# Conversions

## Conversions Part 2

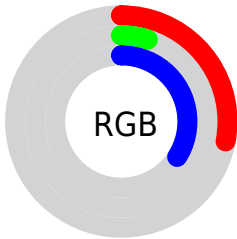
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	71, 13, 87
Decimal	4656471
CIE <sub>Lab</sub>	17.00, 37.87, -30.85
CIE <sub>LCh</sub>	17, 48.842, 320.834
Yxy	2.3023, 0.2787, 0.1444
Android (android.graphics.Color)	4282846551 (0xFF470D57)
YUV	38.7780, 23.7734, 28.2587
Hunter-Lab	15.1734, 25.7093, -25.3051

# Details

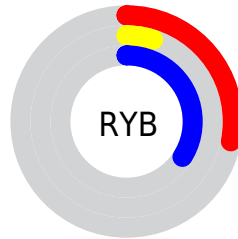
The CIELCh color **17, 48.842, 320.834** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **32, 47.965, 134.084**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 48.846, 320.913**, and **3, 27.684, 312.038** is the 20% darker color. If you saturate the color by 10%, you get **16, 52.088, 320.717**, and if you desaturate by 10%, it is **19, 44.833, 320.841**.

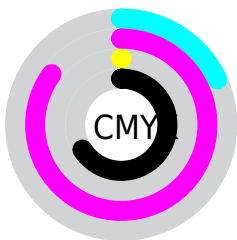
# Distribution



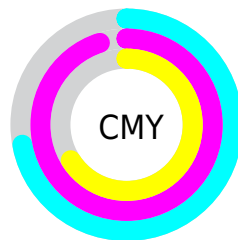
- Red (28%)
- Green (5%)
- Blue (34%)



- Red (28%)
- Yellow (5%)
- Blue (34%)



- Cyan (18%)
- Magenta (85%)
- Yellow (0%)
- Black (66%)




- Cyan (72%)
- Magenta (95%)
- Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 17, 48.842, 320.834 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, 48.842, 320.834 by changing the saturation by 10% instead.



 17, 48.842,  
320.834

 17, 48.842,  
320.834

 100, 48.842,  
320.834

 7, 48.842, 320.834

 37, 48.842,  
320.834

 0, 48.842, 320.834

 47, 48.842,  
320.834

 57, 48.842,  
320.834


 67, 48.842,  
320.834


 77, 48.842,  
320.834


 87, 48.842,


320.834


 97, 48.842,  
320.834


 17, 48.842,  
320.834


 17, 48.842,  
320.834


 16, 52.088,  
320.717


 19, 44.833,  
320.841

 15, 53.731,  
320.697

 20, 39.916,  
320.699

 23, 34.342,  
320.447

 25, 28.345,  
320.118

 27, 22.115,  
319.742

■ 30, 15.792,  
319.340

■ 33, 9.477, 318.927

■ 35, 3.235, 318.500

■ 38, 2.891, 138.182

# Harmonies

# Complementary

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



17, 48.842, 320.834



32, 47.965, 134.084

# Rectangle

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



17, 48.842, 320.834



17, 48.842, 10.834



17, 48.842, 140.834



17, 48.842, 190.834

# Sweetspot

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



17, 48.841, 320.834



39, 20.105, 319.405



13, 40.951, 295.805



18, 13.491, 319.484



75, 0.009, 296.813



24, 0.004, 296.813





# Same Dimension

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



17, 48.841, 320.834



21, 64.349, 320.469



19, 40.250, 340.439



16, 3.455, 318.656



20, 62.251, 320.507



47, 110.893, 320.028



# Inverse Universe

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



17, 35.541, 17.870



22, 49.156, 25.442



32, 42.158, 144.518



16, 2.216, 2.700



21, 47.451, 25.110



49, 87.010, 29.133



# Previews

## White Background



This preview shows how the CIELCh color 17, 48.842, 320.834 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 17, 48.842, 320.834 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

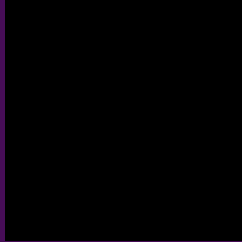
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 17, 48.842, 320.834**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 17, 48.842, 320.834.



This preview shows how white text looks on a background with the CIELCh color 17, 48.842, 320.834.

# 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, 48.842, 320.834

### Protanopia

18, 32.840, 282.671

### Deuteranopia

18, 24.854, 271.402





**Tritanopia**  
18, 14.304, 17.684

# Trichromacy



**Original Color**  
17, 48.842, 320.834

**Protanomaly**  
15, 39.698, 297.433

**Deuteranomaly**  
15, 34.339, 295.438

**Tritanomaly**  
17, 24.733, 336.570

# Monochromacy



**Original Color**  
17, 48.842, 320.834

**Achromatopsia**  
16, 0.003, 296.813

**Achromatomaly**  
15, 21.077, 321.058

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 17, 48.842, 320.834 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(71, 13, 87)` looks like.

```
.text, #text, p{  
    color:rgb(71, 13, 87)  
}
```

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(71, 13, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 13, 87) }
```

## Border

The CSS property to change the border of an element to CIELCh 17, 48.842, 320.834 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(71, 13, 87) }
```

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

```
.border{ border-color:rgb(71, 13, 87) }
```

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

Here you see how a box with a 4 pixel rgb(71, 13, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 13, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 13, 87);  
box-shadow:4px 4px 4px 4px rgb(71, 13, 87)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 17, 48.842, 320.834 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 13, 87) }
```

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

```
.background{ background-color: rgb(71, 13,  
87) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor