

# Converting Colors

CIELCh(47, 8.071, 141.690)

Have a look what the booklet for  
CIELCh(47, 8.071, 141.690) contains.

<b>CIELCh(47, 7.726, 141.512)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(47, 7.726, 141.512)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	687267
RGB	104, 114, 103
RGB Percent	41%, 45%, 40%
CMY	0.5914, 0.5521, 0.5953
CMYK	0.09, 0.00, 0.10, 0.55
HSL	115°, 5%, 43%
HSV	115°, 10%, 45%
XYZ	14.2312, 16.0195, 15.2271
YIQ	109.7560, -2.4290, -5.5410

# Conversions

## Conversions Part 2

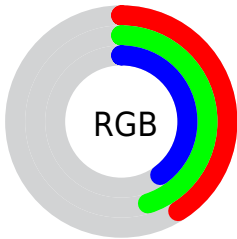
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 114, 113
Decimal	6845031
CIE Lab	47.00, -6.05, 4.81
CIE LCh	47, 7.726, 141.512
Yxy	16.0195, 0.3129, 0.3522
Android (android.graphics.Color)	4285035111 (0xFF687267)
YUV	109.7560, -3.3307, -5.0480
Hunter-Lab	40.0243, -6.5742, 5.4603

# Details

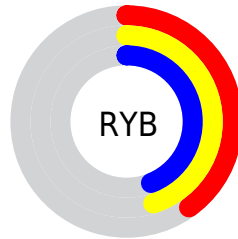
The CIELCh color  $47, 7.726, 141.512$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $45, 7.752, 322.397$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $67, 7.880, 141.839$ , and  $27, 7.712, 141.019$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 15.817, 140.932$ , and if you desaturate by 10%, it is  $48, 0.296, 321.455$ .

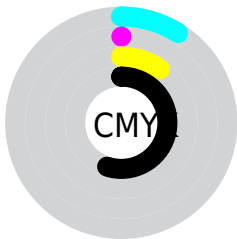
# Distribution



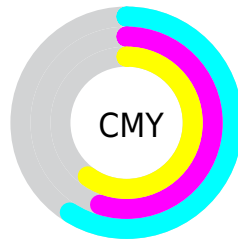
- Red (41%)
- Green (45%)
- Blue (40%)



- Red (40%)
- Yellow (45%)
- Blue (44%)



- Cyan (9%)
- Magenta (0%)
- Yellow (10%)
- Black (55%)



- Cyan (59%)
- Magenta (55%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 47, 7.726, 141.512 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 47, 7.726, 141.512 by changing the saturation by 10% instead.



■ 47, 7.726, 141.512

■ 47, 7.726, 141.512

■ 100, 7.726,  
141.512

■ 37, 7.726, 141.512

■ 67, 7.726, 141.512

■ 27, 7.726, 141.512

■ 77, 7.726, 141.512

■ 17, 7.726, 141.512

■ 87, 7.726, 141.512

■ 7, 7.726, 141.512

■ 97, 7.726, 141.512

■ 0, 7.726, 141.512

■ 47, 7.726, 141.512

■ 47, 7.726, 141.512

■ 46, 15.817,  
140.932

■ 48, 0.296, 321.455

■ 45, 23.887,

■ 49, 8.191, 322.390

140.275

51, 15.915,  
322.761

44, 31.821,  
139.538

52, 23.441,  
323.074

43, 39.464,  
138.731

54, 30.755,  
323.340

43, 46.619,  
137.884

55, 37.851,  
323.567

42, 53.039,  
137.056

57, 44.728,  
323.761

42, 58.429,  
136.341

59, 51.391,  
323.927

42, 62.484,  
135.855

60, 57.847,  
324.069

41, 65.506,  
135.377

# Harmonies

# Complementary

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



47, 7.726, 141.512



45, 7.752, 322.397

# Rectangle

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



47, 7.726, 141.512



47, 7.726, 191.512



47, 7.726, 321.512



47, 7.726, 11.512

# Sweetspot

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



47, 7.727, 141.513



61, 2.956, 141.888



48, 5.838, 104.842



31, 2.229, 141.842



81, 0.010, 296.813



31, 0.005, 296.813



# Same Dimension

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



47, 7.727, 141.513



60, 11.913, 141.364



47, 5.968, 157.972



23, 4.443, 141.549



43, 67.944, 135.384



85, 116.536, 135.699





# Inverse Universe

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



45, 7.752, 322.397



56, 11.952, 322.526



45, 6.016, 339.282



22, 4.457, 322.365



26, 66.493, 324.827



55, 113.612, 324.637



# Previews

## White Background



This preview shows how the CIELCh color 47, 7.726, 141.512 looks on a white background.

## Color Contrast Check

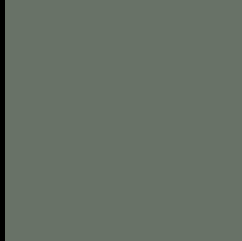
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 47, 7.726, 141.512 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

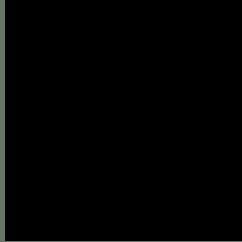
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

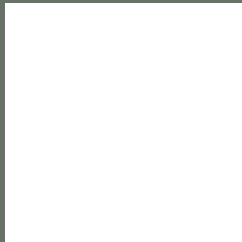
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 47, 7.726, 141.512**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 47, 7.726, 141.512.

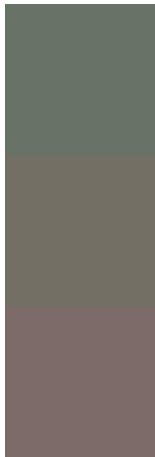


This preview shows how white text looks on a background with the CIELCh color 47, 7.726, 141.512.

# 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


47, 7.726, 141.512

### Protanopia

47, 6.255, 89.568

### Deuteranopia

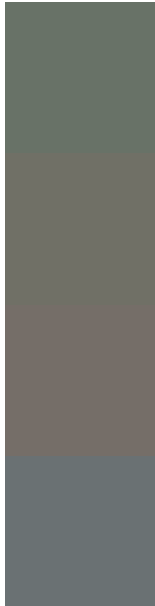
47, 7.713, 29.018



**Tritanopia**  
47, 5.632, 270.682



# Trichromacy



**Original Color**  
47, 7.726, 141.512

**Protanomaly**  
47, 5.891, 109.360

**Deuteranomaly**  
47, 4.593, 69.856

**Tritanomaly**  
47, 3.001, 222.483

# Monochromacy



**Original Color**  
47, 7.726, 141.512

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
47, 2.887, 144.311

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 47, 7.726, 141.512 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(104, 114, 103)` looks like.

```
.text, #text, p{  
    color:rgb(104, 114, 103)  
}
```

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(104, 114, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 114, 103) }
```

## Border

The CSS property to change the border of an element to CIELCh 47, 7.726, 141.512 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(104, 114, 103) }
```

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

```
.border{ border-color:rgb(104, 114, 103) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 114, 103)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 114, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 114, 103);  
box-shadow:4px 4px 4px 4px rgb(104, 114,  
103) }
```

# Background

The CSS property to change the background color of an element to CIELCh 47, 7.726, 141.512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 114, 103) }
```

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

```
.background{ background-color: rgb(104,  
114, 103) }
```

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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