

# Converting Colors

CIELCh(46, 7.689, 198.551)

Have a look what the booklet for  
CIELCh(46, 7.689, 198.551) contains.

<b>CIELCh(46, 7.770, 198.561)</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(46, 7.770, 198.561)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5D7171
RGB	93, 113, 113
RGB Percent	36%, 44%, 44%
CMY	0.6361, 0.5577, 0.5577
CMYK	0.18, 0.00, 0.00, 0.56
HSL	180°, 10%, 40%
HSV	180°, 18%, 44%
XYZ	13.3452, 15.2687, 17.8059
YIQ	107.0200, -11.9200, -4.2400

# Conversions

## Conversions Part 2

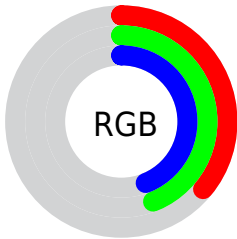
Format	Color
R <sub>Y</sub> B	93, 103, 113
Decimal	6123889
CIE Lab	46.00, -7.37, -2.47
CIE LCh	46, 7.770, 198.561
Yxy	15.2687, 0.2875, 0.3289
Android (android.graphics.Color)	4284313969 (0xFF5D7171)
YUV	107.0200, 2.9481, -12.2955
Hunter-Lab	39.0751, -7.4191, 0.3352

# Details

The CIELCh color **46, 7.770, 198.561** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **41, 8.665, 20.534**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 7.712, 198.793**, and **26, 7.884, 198.124** is the 20% darker color. If you saturate the color by 10%, you get **45, 11.778, 198.087**, and if you desaturate by 10%, it is **47, 3.475, 199.102**.

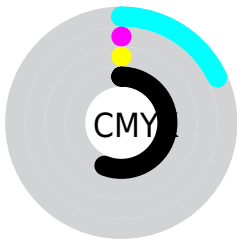
# Distribution



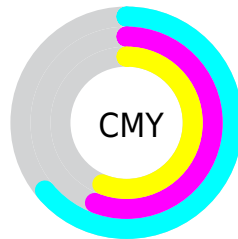
- Red (36%)
- Green (44%)
- Blue (44%)



- Red (36%)
- Yellow (40%)
- Blue (44%)



- Cyan (18%)
- Magenta (0%)
- Yellow (0%)
- Black (56%)















- Cyan (64%)
- Magenta (56%)
- Yellow (56%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 7.770, 198.561 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 46, 7.770, 198.561 by changing the saturation by 10% instead.



 46, 7.770, 198.561	 46, 7.770, 198.561
 100, 7.770, 198.561	 36, 7.770, 198.561
 66, 7.770, 198.561	 26, 7.770, 198.561
 76, 7.770, 198.561	 16, 7.770, 198.561
 86, 7.770, 198.561	 6, 7.770, 198.561
 96, 7.770, 198.561	 0, 7.770, 198.561

 46, 7.770, 198.561	 46, 7.770, 198.561
 45, 11.778, 198.087	 47, 3.475, 199.102
 45, 15.430,	 48, 1.045, 19.174

197.675

49, 5.732, 20.008

44, 18.663,  
197.318

50, 10.534, 20.607

44, 21.419,  
197.018

51, 15.411, 21.201

43, 23.657,  
196.779

52, 20.326, 21.799

43, 25.355,  
196.598

54, 25.253, 22.397

43, 26.518,  
196.475

55, 30.169, 22.994

43, 27.290,  
196.394

43, 27.461,  
196.376

# Harmonies

# Complementary

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



46, 7.770, 198.561



41, 8.665, 20.534

# Rectangle

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



46, 7.770, 198.561



46, 7.770, 248.561



46, 7.770, 18.561



46, 7.770, 68.561

# Sweetspot

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



46, 7.771, 198.554



61, 2.824, 199.287



45, 14.472, 142.982



31, 1.912, 199.245



81, 0.010, 296.813



31, 0.005, 296.813



# Same Dimension

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



46, 7.771, 198.554



59, 11.365, 198.368



43, 6.968, 255.926



23, 2.511, 199.023



45, 28.676, 196.376



89, 48.974, 196.375





# Inverse Universe

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



41, 8.665, 20.534



52, 13.001, 20.869



44, 7.310, 71.539



22, 2.649, 19.852



24, 57.999, 37.787



52, 102.187, 39.998



# Previews

## White Background



This preview shows how the CIELCh color 46, 7.770, 198.561 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 46, 7.770, 198.561 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

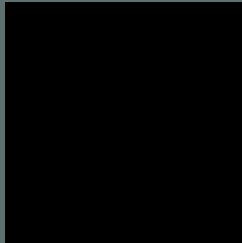
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

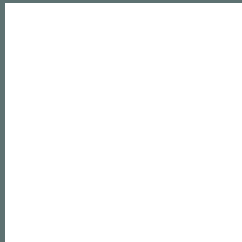
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 46, 7.770, 198.561

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 7.770, 198.561.



This preview shows how white text looks on a background with the CIELCh color 46, 7.770, 198.561.

# 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

46, 7.770, 198.561

### Protanopia

46, 1.454, 324.422

### Deuteranopia

46, 7.272, 332.944



**Tritanopia**  
46, 8.513, 237.913



# Trichromacy



**Original Color**  
46, 7.770, 198.561

**Protanomaly**  
46, 2.469, 213.218

**Deuteranomaly**  
46, 3.573, 290.685

**Tritanomaly**  
46, 7.651, 226.652

# Monochromacy



**Original Color**  
46, 7.770, 198.561

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 2.816, 199.197

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 7.770, 198.561 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(93, 113, 113)` looks like.

```
.text, #text, p{  
    color:rgb(93, 113, 113)  
}
```

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(93, 113, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 113, 113) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 7.770, 198.561 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(93, 113, 113) }
```

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

```
.border{ border-color:rgb(93, 113, 113) }
```

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

Here you see how a box with a 4 pixel rgb(93, 113, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 113, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 113, 113);  
box-shadow:4px 4px 4px 4px rgb(93, 113,  
113) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 7.770, 198.561 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 113, 113) }
```

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

```
.background{ background-color: rgb(93, 113,  
113) }
```

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