

# Converting Colors

CIELCh(46, 13.979, 211.336)

Have a look what the booklet for  
CIELCh(46, 13.979, 211.336)  
contains.

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# Color

**CIELCh(46, 13.964, 212.906)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4D7379
RGB	77, 115, 121
RGB Percent	30%, 45%, 47%
CMY	0.6974, 0.5484, 0.5248
CMYK	0.36, 0.05, 0.00, 0.52
HSL	188°, 22%, 39%
HSV	188°, 36%, 48%
XYZ	12.6850, 15.2687, 20.4216
YIQ	104.3220, -24.5740, -6.1900

# Conversions

## Conversions Part 2

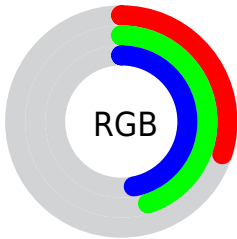
Format	Color
<b>RYB</b>	77, 97, 121
Decimal	5075833
CIELab	46.00, -11.72, -7.59
CIElCh	46, 13.964, 212.906
Yxy	15.2687, 0.2622, 0.3156
Android (android.graphics.Color)	4283265913 (0xFF4D7379)
YUV	104.3220, 8.2223, -23.9614
Hunter-Lab	39.0751, -10.4347, -3.6337

# Details

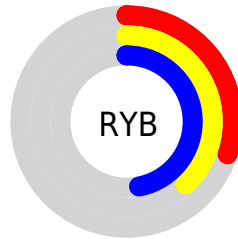
The CIELCh color **46, 13.964, 212.906** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **39, 17.967, 33.356**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 13.900, 212.257**, and **26, 14.071, 213.766** is the 20% darker color. If you saturate the color by 10%, you get **45, 17.033, 213.381**, and if you desaturate by 10%, it is **47, 10.505, 212.605**.

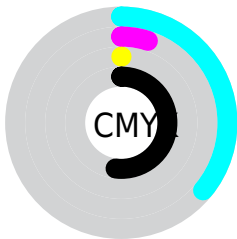
# Distribution



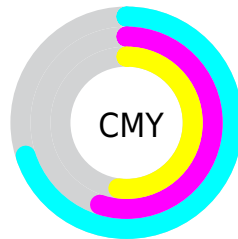
- Red (30%)
- Green (45%)
- Blue (47%)



- Red (30%)
- Yellow (38%)
- Blue (47%)



- Cyan (36%)
- Magenta (5%)
- Yellow (0%)
- Black (52%)



- Cyan (70%)
- Magenta (55%)
- Yellow (52%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 13.964, 212.906 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, 13.964, 212.906 by changing the saturation by 10% instead.





 46, 13.964,  
212.906


 46, 13.964,  
212.906


 100, 13.964,  
212.906


 36, 13.964,  
212.906

 66, 13.964,  
212.906


 26, 13.964,  
212.906

 76, 13.964,  
212.906

 16, 13.964,  
212.906


 86, 13.964,  
212.906

 6, 13.964, 212.906

 96, 13.964,  
212.906

 0, 13.964, 212.906

 46, 13.964,

 46, 13.964,

212.906

■ 45, 17.033,  
213.381

■ 44, 19.653,  
214.079

■ 43, 21.774,  
215.042

■ 42, 23.367,  
216.319

■ 41, 24.431,  
217.962

■ 41, 25.055,  
219.959

■ 40, 25.270,  
220.699

212.906

■ 47, 10.505,  
212.605

■ 49, 6.720, 212.463

■ 50, 2.669, 212.501

■ 51, 1.590, 32.157

■ 53, 6.010, 32.445

■ 55, 10.547, 32.637

■ 56, 15.167, 32.853

■ 58, 19.842, 33.093

■ 60, 24.548, 33.352

# Harmonies

# Complementary

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



46, 13.964, 212.906



39, 17.967, 33.356

# Rectangle

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



46, 13.964, 212.906



46, 13.964, 262.906



46, 13.964, 32.906



46, 13.964, 82.906

# Sweetspot

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



46, 13.964, 212.902



63, 5.711, 212.450



47, 28.776, 145.657



32, 3.806, 212.449



83, 0.010, 296.813



34, 0.005, 296.813



# Same Dimension

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



46, 13.964, 212.902



58, 20.236, 213.312



39, 17.741, 274.037



25, 2.385, 212.461



42, 25.829, 220.786



80, 43.371, 222.293





# Inverse Universe

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



39, 28.747, 330.497



48, 42.902, 331.018



45, 18.148, 83.816



24, 4.488, 328.886



28, 61.446, 334.289



58, 102.869, 334.665



# Previews

## White Background



This preview shows how the CIE LCh color 46, 13.964, 212.906 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, 13.964, 212.906 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

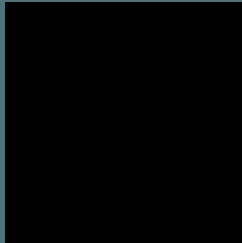
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 13.964, 212.906**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 13.964, 212.906.



This preview shows how white text looks on a background with the CIELCh color 46, 13.964, 212.906.

# 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, 13.964, 212.906

### Protanopia

46, 5.356, 290.926

### Deuteranopia

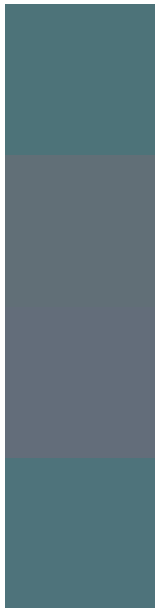
46, 10.430, 304.507



**Tritanopia**  
46, 14.002, 220.722



# Trichromacy



**Original Color**  
46, 13.964, 212.906

**Protanomaly**  
46, 7.068, 241.420

**Deuteranomaly**  
46, 8.526, 264.747

**Tritanomaly**  
46, 13.865, 218.279

# Monochromacy



**Original Color**  
46, 13.964, 212.906

**Achromatopsia**  
44, 0.006, 296.813

**Achromatomaly**  
45, 5.612, 211.180

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 13.964, 212.906 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(77, 115, 121)` looks like.

```
.text, #text, p{  
    color:rgb(77, 115, 121)  
}
```

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(77, 115, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 115, 121) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 13.964, 212.906 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(77, 115, 121) }
```

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

```
.border{ border-color:rgb(77, 115, 121) }
```

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

Here you see how a box with a 4 pixel rgb(77, 115, 121) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 115, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 115, 121);  
box-shadow:4px 4px 4px 4px rgb(77, 115,  
121) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 13.964, 212.906 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 115, 121) }
```

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

```
.background{ background-color: rgb(77, 115,  
121) }
```

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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