

# Converting Colors

CIELCh(46, 13.219, 218.103)

Have a look what the booklet for  
CIELCh(46, 13.219, 218.103)  
contains.

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# Color

**CIELCh(46, 13.152, 216.687)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50737A
RGB	80, 115, 122
RGB Percent	31%, 45%, 48%
CMY	0.6876, 0.5504, 0.5229
CMYK	0.35, 0.06, 0.00, 0.52
HSL	190°, 21%, 39%
HSV	190°, 35%, 48%
XYZ	12.8611, 15.2687, 20.5672
YIQ	105.3330, -23.1070, -5.2430

# Conversions

## Conversions Part 2

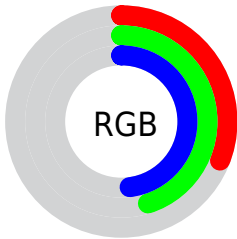
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	80, 99, 122
Decimal	5272442
CIE <sub>Lab</sub>	46.00, -10.55, -7.86
CIE <sub>LCh</sub>	46, 13.152, 216.687
Yxy	15.2687, 0.2641, 0.3135
Android (android.graphics.Color)	4283462522 (0xFF50737A)
YUV	105.3330, 8.2168, -22.2170
Hunter-Lab	39.0751, -9.6303, -3.8547

# Details

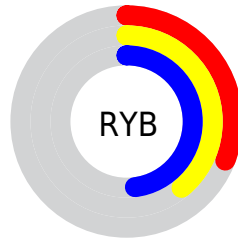
The CIELCh color  $46, 13.152, 216.687$  is a dark color, and the websafe version is hex  $336666$ . A complement of this color would be  $40, 16.652, 36.046$ , and the grayscale version is  $44, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 13.063, 215.795$ , and  $26, 13.081, 215.179$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 16.259, 217.344$ , and if you desaturate by 10%, it is  $47, 9.680, 216.230$ .

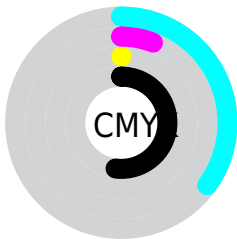
# Distribution



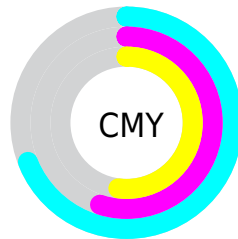
- Red (31%)
- Green (45%)
- Blue (48%)



- Red (31%)
- Yellow (39%)
- Blue (48%)



- Cyan (35%)
- Magenta (6%)
- Yellow (0%)
- Black (52%)




- Cyan (69%)
- Magenta (55%)
- Yellow (52%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 13.152, 216.687 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, 13.152, 216.687 by changing the saturation by 10% instead.





 46, 13.152,  
216.687


 46, 13.152,  
216.687


 100, 13.152,  
216.687


 36, 13.152,  
216.687

 66, 13.152,  
216.687


 26, 13.152,  
216.687

 76, 13.152,  
216.687

 16, 13.152,  
216.687

 86, 13.152,  
216.687

 6, 13.152, 216.687

 96, 13.152,  
216.687

 0, 13.152, 216.687

 46, 13.152,

 46, 13.152,

216.687

216.687

■ 45, 16.259,  
217.344

■ 47, 9.680, 216.230

■ 44, 18.944,  
218.258

■ 49, 5.905, 215.955

■ 50, 1.884, 215.921

■ 42, 21.157,  
219.479

■ 52, 2.330, 35.483

■ 41, 22.865,  
221.070

■ 54, 6.692, 35.598

■ 55, 11.163, 35.690

■ 40, 24.067,  
223.095

■ 57, 15.711, 35.814

■ 40, 24.814,  
225.584

■ 59, 20.310, 35.968

■ 61, 24.938, 36.145

■ 39, 25.180,  
226.984

# Harmonies

# Complementary

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



46, 13.152, 216.687



40, 16.652, 36.046

# Rectangle

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



46, 13.152, 216.687



46, 13.152, 266.687



46, 13.152, 36.687



46, 13.152, 86.687

# Sweetspot

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



46, 13.152, 216.683



63, 5.097, 215.893



47, 27.138, 146.339



32, 3.448, 215.905



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, 13.152, 216.683



58, 18.768, 217.156



40, 17.254, 275.044



25, 2.335, 215.884



40, 25.668, 227.079



78, 43.221, 228.966





# Inverse Universe

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



40, 26.882, 331.442



49, 39.320, 331.911



46, 17.500, 85.474



24, 4.394, 329.883



28, 60.076, 335.883



58, 100.465, 336.374



# Previews

## White Background



This preview shows how the CIELCh color 46, 13.152, 216.687 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, 13.152, 216.687 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

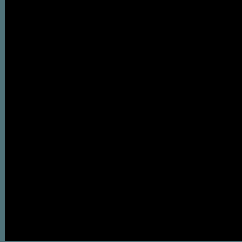
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

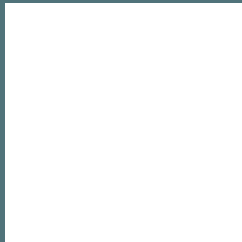
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 46, 13.152, 216.687

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 13.152, 216.687.



This preview shows how white text looks on a background with the CIELCh color 46, 13.152, 216.687.

# 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, 13.152, 216.687

### Protanopia

46, 5.356, 290.926

### Deuteranopia

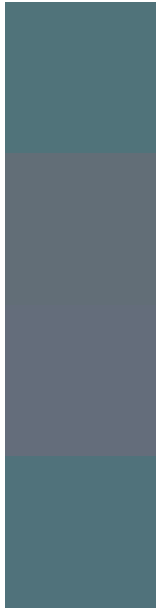
46, 11.009, 303.848



**Tritanopia**  
46, 13.327, 224.914



# Trichromacy



**Original Color**  
46, 13.152, 216.687

**Protanomaly**  
46, 6.968, 249.492

**Deuteranomaly**  
46, 8.917, 268.782

**Tritanomaly**  
46, 13.145, 222.398

# Monochromacy



**Original Color**  
46, 13.152, 216.687

**Achromatopsia**  
44, 0.006, 296.813

**Achromatomaly**  
45, 5.233, 212.111

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 13.152, 216.687 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(80, 115, 122)` looks like.

```
.text, #text, p{  
    color:rgb(80, 115, 122)  
}
```

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(80, 115, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 115, 122) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 13.152, 216.687 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(80, 115, 122) }
```

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

```
.border{ border-color:rgb(80, 115, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 115, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 115, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 115, 122);  
box-shadow:4px 4px 4px 4px rgb(80, 115,  
122) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 13.152, 216.687 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 115, 122) }
```

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

```
.background{ background-color: rgb(80, 115,  
122) }
```

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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