

Converting Colors

CIELCh(46, 16.831, 216.667)

Have a look what the booklet for
CIELCh(46, 16.831, 216.667)
contains.

CIELCh(46, 16.755, 216.570)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(46, 16.755, 216.570)

Conversions

Conversions Part 1

Format	Color
Hex	45747D
RGB	69, 116, 125
RGB Percent	27%, 45%, 49%
CMY	0.7290, 0.5447, 0.5094
CMYK	0.45, 0.07, 0.00, 0.51
HSL	190°, 29%, 38%
HSV	190°, 45%, 49%
XYZ	12.4287, 15.2687, 21.7311
YIQ	102.9730, -30.9010, -7.1650

Conversions

Conversions Part 2

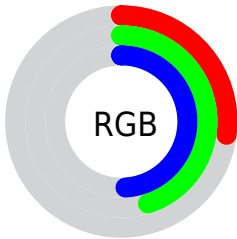
Format	Color
R _Y B	69, 95, 125
Decimal	4551805
CIE Lab	46.00, -13.46, -9.98
CIE LCh	46, 16.755, 216.570
Yxy	15.2687, 0.2514, 0.3089
Android (android.graphics.Color)	4282741885 (0xFF45747D)
YUV	102.9730, 10.8593, -29.7943
Hunter-Lab	39.0751, -11.6056, -5.6208

Details

The CIELCh color **46, 16.755, 216.570** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **38, 23.108, 36.022**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 16.662, 217.752**, and **26, 16.861, 215.370** is the 20% darker color. If you saturate the color by 10%, you get **45, 19.488, 217.444**, and if you desaturate by 10%, it is **47, 13.582, 215.940**.

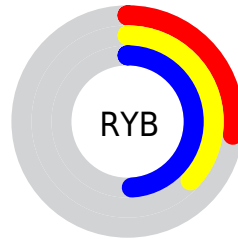
Distribution



 Red (27%)

 Green (45%)

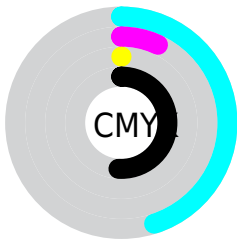
 Blue (49%)




 Red (27%)

 Yellow (37%)

 Blue (49%)

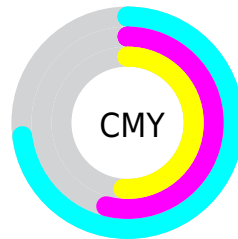


 Cyan (45%)


 Magenta (7%)

 Yellow (0%)

 Black (51%)



 Cyan (73%)


 Magenta (54%)


 Yellow (51%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 16.755, 216.570 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, 16.755, 216.570 by changing the saturation by 10% instead.


 46, 16.755,
216.570


 46, 16.755,
216.570


 100, 16.755,
216.570


 36, 16.755,
216.570

 66, 16.755,
216.570


 26, 16.755,
216.570

 76, 16.755,
216.570

 16, 16.755,
216.570


 86, 16.755,
216.570

 6, 16.755, 216.570

 96, 16.755,
216.570

 0, 16.755, 216.570

 46, 16.755,

 46, 16.755,

216.570

■ 45, 19.488,
217.444

■ 44, 21.730,
218.622

■ 43, 23.450,
220.161

■ 42, 24.643,
222.125

■ 41, 25.367,
224.544

■ 41, 25.701,
225.847

216.570

■ 47, 13.582,
215.940

■ 49, 10.030,
215.516

■ 50, 6.162, 215.266

■ 52, 2.038, 215.247

■ 53, 2.288, 34.837

■ 55, 6.766, 34.979

■ 57, 11.358, 35.090

■ 59, 16.030, 35.234

■ 60, 20.754, 35.406

Harmonies

Complementary

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



46, 16.755, 216.570



38, 23.108, 36.022

Rectangle

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



46, 16.755, 216.570



46, 16.755, 266.570



46, 16.755, 36.570



46, 16.755, 86.570

Sweetspot

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



46, 16.755, 216.567



65, 6.771, 215.244



48, 35.746, 145.305



33, 4.690, 215.273



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



46, 16.755, 216.567



58, 23.813, 217.499



38, 23.057, 277.234



26, 2.425, 215.207



41, 26.053, 225.911



0, 0.000, 0.000

Inverse Universe

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



38, 35.457, 331.877



46, 52.083, 332.540



46, 23.441, 84.102



25, 4.565, 329.690



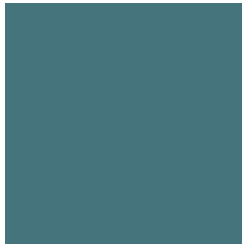
28, 61.208, 335.583



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 46, 16.755, 216.570 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 CIELCh color 46, 16.755, 216.570 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

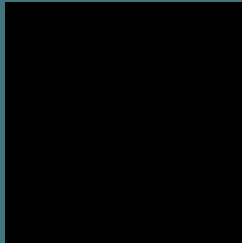
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

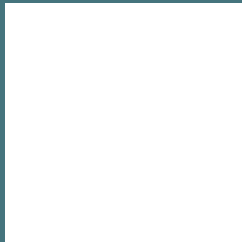
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 46, 16.755, 216.570

Background



This preview shows how black text looks on a background with the CIELCh color 46, 16.755, 216.570.



This preview shows how white text looks on a background with the CIELCh color 46, 16.755, 216.570.

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, 16.755, 216.570

Protanopia

46, 7.143, 288.037

Deuteranopia

46, 12.634, 298.835



Tritanopia
46, 16.755, 216.570

Trichromacy



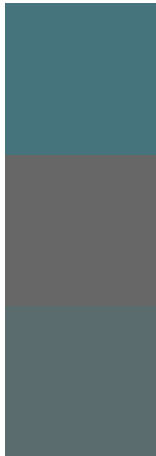
Original Color
46, 16.755, 216.570

Protanomaly
46, 9.243, 244.160

Deuteranomaly
46, 10.863, 260.679

Tritanomaly
46, 16.755, 216.570

Monochromacy



Original Color
46, 16.755, 216.570

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 6.809, 214.059

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 16.755, 216.570 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(69, 116, 125)` looks like.

```
.text, #text, p{  
    color:rgb(69, 116, 125)  
}
```

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(69, 116, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 116, 125) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 16.755, 216.570 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(69, 116, 125) }
```

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

```
.border{ border-color:rgb(69, 116, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 116, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 116, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 116, 125);  
box-shadow:4px 4px 4px 4px rgb(69, 116,  
125) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 16.755, 216.570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 116, 125) }
```

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

```
.background{ background-color: rgb(69, 116,  
125) }
```

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