

Converting Colors

CIELCh(46, 1.645, 199.537)

Have a look what the booklet for
CIELCh(46, 1.645, 199.537) contains.

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Color

CIELCh(46, 1.616, 199.435)

Conversions

Conversions Part 1

Format	Color
Hex	6A6E6E
RGB	106, 110, 110
RGB Percent	42%, 43%, 43%
CMY	0.5853, 0.5696, 0.5696
CMYK	0.04, 0.00, 0.00, 0.57
HSL	180°, 2%, 42%
HSV	180°, 4%, 43%
XYZ	14.2656, 15.2687, 16.8771
YIQ	108.8040, -2.3840, -0.8480

Conversions

Conversions Part 2

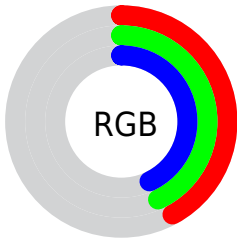
Format	Color
R_{YB}	106, 108, 110
Decimal	6975086
CIE Lab	46.00, -1.52, -0.54
CIE LCh	46, 1.616, 199.435
Yxy	15.2687, 0.3074, 0.3290
Android (android.graphics.Color)	4285165166 (0xFF6A6E6E)
YUV	108.8040, 0.5896, -2.4591
Hunter-Lab	39.0751, -3.2147, 1.7444

Details

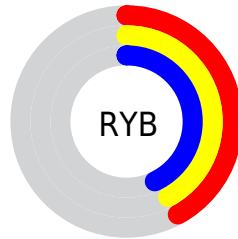
The CIELCh color **46, 1.616, 199.435** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **45, 1.653, 19.359**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 1.885, 199.488**, and **26, 1.770, 199.238** is the 20% darker color. If you saturate the color by 10%, you get **45, 5.914, 198.730**, and if you desaturate by 10%, it is **47, 2.876, 19.586**.

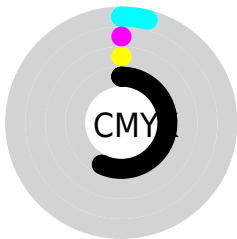
Distribution



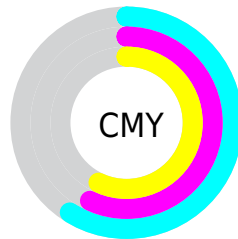
- Red (42%)
- Green (43%)
- Blue (43%)



- Red (42%)
- Yellow (42%)
- Blue (43%)



- Cyan (4%)
- Magenta (0%)
- Yellow (0%)
- Black (57%)





















- Cyan (59%)
- Magenta (57%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 1.616, 199.435 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, 1.616, 199.435 by changing the saturation by 10% instead.

 46, 1.616, 199.435	 46, 1.616, 199.435
 100, 1.616, 199.435	 36, 1.616, 199.435
 66, 1.616, 199.435	 26, 1.616, 199.435
 76, 1.616, 199.435	 16, 1.616, 199.435
 86, 1.616, 199.435	 6, 1.616, 199.435
 96, 1.616, 199.435	 0, 1.616, 199.435
 46, 1.616, 199.435	 46, 1.616, 199.435
 45, 5.914, 198.730	 47, 2.876, 19.586
 44, 9.957, 198.238	 48, 7.510, 20.220

44, 13.682,
197.803

49, 12.239, 20.813

43, 17.023,
197.422

50, 17.025, 21.408

52, 21.838, 22.005

43, 19.922,
197.097

53, 26.653, 22.601

42, 22.331,
196.829

54, 31.451, 23.194

56, 36.220, 23.781

42, 24.220,
196.621

57, 40.947, 24.358

42, 25.582,
196.471

42, 26.459,
196.372

Harmonies

Complementary

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



46, 1.616, 199.435



45, 1.653, 19.359

Rectangle

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



46, 1.616, 199.435



46, 1.616, 249.435



46, 1.616, 19.435



46, 1.616, 69.435

Sweetspot

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



46, 1.617, 199.395



59, 0.553, 200.090



46, 2.882, 143.867



30, 0.312, 200.164



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



46, 1.617, 199.395



59, 2.200, 199.346



45, 1.415, 254.182



23, 1.268, 199.308



45, 28.684, 196.317



89, 48.988, 196.313

Inverse Universe

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



45, 1.653, 19.359



58, 2.255, 19.410



46, 1.419, 73.011



23, 1.303, 19.451



24, 57.988, 37.772



52, 102.170, 39.987

Previews

White Background



This preview shows how the CIELCh color 46, 1.616, 199.435 looks on a white background.

Color Contrast Check

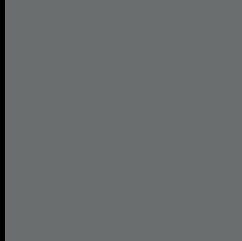
Large Text (above 18pt) WCAG AA ✓ Pass

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, 1.616, 199.435 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

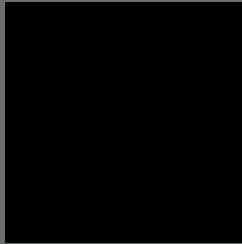
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

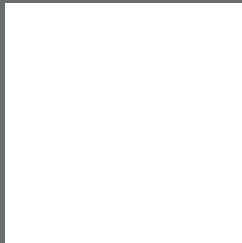
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 46, 1.616, 199.435

Background



This preview shows how black text looks on a background with the CIELCh color 46, 1.616, 199.435.



This preview shows how white text looks on a background with the CIELCh color 46, 1.616, 199.435.

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, 1.616, 199.435

Protanopia

46, 1.373, 353.704

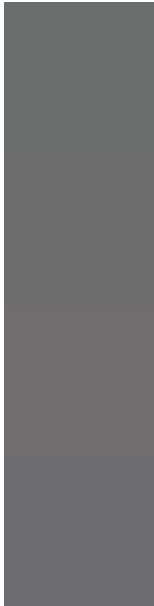
Deuteranopia

46, 6.791, 348.653



Tritanopia
46, 4.806, 281.386

Trichromacy



Original Color

46, 1.616, 199.435

Protanomaly

46, 0.006, 296.813

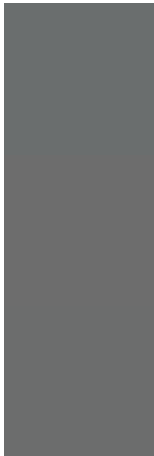
Deuteranomaly

46, 3.740, 340.374

Tritanomaly

46, 3.066, 275.511

Monochromacy



Original Color

46, 1.616, 199.435

Achromatopsia

46, 0.006, 296.813

Achromatomaly

46, 0.406, 200.229

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 1.616, 199.435 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(106, 110, 110)` looks like.

```
.text, #text, p{  
    color:rgb(106, 110, 110)  
}
```

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(106, 110, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 110, 110) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 1.616, 199.435 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(106, 110, 110) }
```

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

```
.border{ border-color:rgb(106, 110, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(106, 110, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 110, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 110, 110);  
box-shadow:4px 4px 4px 4px rgb(106, 110,  
110) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 1.616, 199.435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 110, 110) }
```

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

```
.background{ background-color: rgb(106,  
110, 110) }
```

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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