

Converting Colors

CIELCh(46, 28.744, 229.877)

Have a look what the booklet for
CIELCh(46, 28.744, 229.877)
contains.

CIELCh(46, 28.621, 230.298)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(46, 28.621, 230.298)

Conversions

Conversions Part 1

Format	Color
Hex	007791
RGB	0, 119, 145
RGB Percent	0%, 47%, 57%
CMY	0.9985, 0.5329, 0.4309
CMYK	1.00, 0.18, 0.00, 0.43
HSL	191°, 99%, 29%
HSV	191°, 100%, 57%
XYZ	11.7330, 15.2687, 29.1608
YIQ	86.3830, -79.2700, -17.1420

Conversions

Conversions Part 2

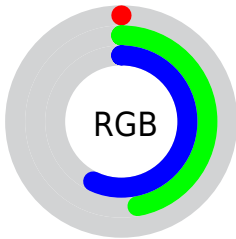
Format	Color
RYB	0, 65, 145
Decimal	30609
CIELab	46.00, -18.28, -22.02
CIELCh	46, 28.621, 230.298
Yxy	15.2687, 0.2089, 0.2719
Android (android.graphics.Color)	4278220689 (0xFF007791)
YUV	86.3830, 28.8982, -75.7579
Hunter-Lab	39.0751, -14.7837, -16.8941

Details

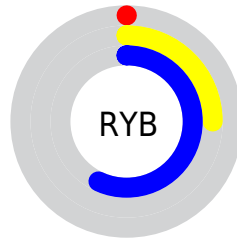
The CIELCh color **46, 28.621, 230.298** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **31, 64.828, 42.992**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **66, 28.618, 230.911**, and **27, 21.797, 243.956** is the 20% darker color. If you saturate the color by 10%, you get **46, 28.639, 230.375**, and if you desaturate by 10%, it is **47, 27.921, 227.286**.

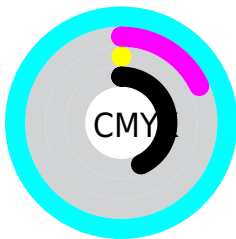
Distribution



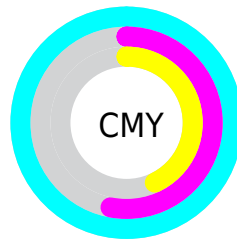
- Red (0%)
- Green (47%)
- Blue (57%)



- Red (0%)
- Yellow (25%)
- Blue (57%)



- Cyan (100%)
- Magenta (18%)
- Yellow (0%)
- Black (43%)



- Cyan (100%)
- Magenta (53%)
- Yellow (43%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 28.621, 230.298 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, 28.621, 230.298 by changing the saturation by 10% instead.

 46, 28.621,
230.298

 46, 28.621,
230.298

 100, 28.621,
230.298

 36, 28.621,
230.298

 66, 28.621,
230.298

 26, 28.621,
230.298

 76, 28.621,
230.298

 16, 28.621,
230.298

 86, 28.621,
230.298

 6, 28.621, 230.298

 96, 28.621,
230.298

 0, 28.621, 230.298

 46, 28.621,

 46, 28.621,

230.298

■ 46, 28.639,
230.375

230.298

■ 47, 27.921,
227.286

■ 48, 26.857,
224.683

■ 49, 25.236,
222.602

■ 50, 23.031,
220.976

■ 52, 20.258,
219.733

■ 53, 16.962,
218.806

■ 55, 13.206,
218.137

■ 57, 9.061, 217.680

Harmonies

Complementary

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



46, 28.621, 230.298



31, 64.828, 42.992

Rectangle

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



46, 28.621, 230.298



46, 28.621, 280.298



46, 28.621, 50.298



46, 28.621, 100.298

Sweetspot

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



46, 28.620, 230.298



70, 16.450, 218.187



52, 74.558, 138.233



36, 11.029, 218.418



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



46, 28.620, 230.298



59, 34.784, 231.176



24, 62.801, 295.802



29, 2.633, 217.408



43, 27.190, 230.126



1, 1.819, 217.159

Inverse Universe

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



33, 66.151, 336.723



43, 80.110, 336.958



45, 54.164, 76.287



28, 4.952, 330.342



30, 62.906, 336.679



1, 3.324, 329.825

Previews

White Background



This preview shows how the CIELCh color 46, 28.621, 230.298 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, 28.621, 230.298 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

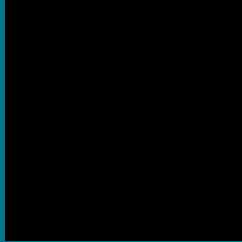
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 28.621, 230.298

Background



This preview shows how black text looks on a background with the CIELCh color 46, 28.621, 230.298.

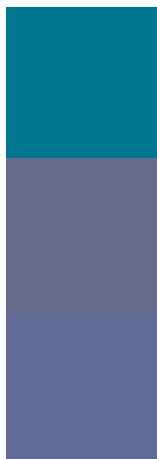


This preview shows how white text looks on a background with the CIELCh color 46, 28.621, 230.298.

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, 28.621, 230.298

Protanopia

46, 17.351, 284.182

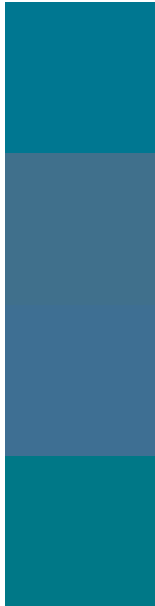
Deuteranopia

46, 24.500, 285.514



Tritanopia
46, 27.899, 207.831

Trichromacy



Original Color
46, 28.621, 230.298

Protanomaly
45, 21.813, 248.816

Deuteranomaly
45, 25.266, 257.485

Tritanomaly
46, 27.661, 215.874

Monochromacy



Original Color
46, 28.621, 230.298

Achromatopsia
37, 0.005, 296.813

Achromatomaly
39, 15.927, 218.120

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 28.621, 230.298 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(0, 119, 145)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 145)  
}
```

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(0, 119, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 145) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 28.621, 230.298 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(0, 119, 145) }
```

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

```
.border{ border-color:rgb(0, 119, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 119, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 145);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
145) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 28.621, 230.298 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 145) }
```

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

```
.background{ background-color: rgb(0, 119,  
145) }
```

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