

Converting Colors

CIELCh(41, 84.417, 200.133)

Have a look what the booklet for
CIELCh(41, 84.417, 200.133)
contains.

CIELCh(47, 28.500, 220.425)	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(47, 28.500, 220.425)

Conversions

Conversions Part 1

Format	Color
Hex	007B8E
RGB	0, 123, 142
RGB Percent	0%, 48%, 56%
CMY	1.0000, 0.5187, 0.4443
CMYK	1.00, 0.13, 0.00, 0.44
HSL	188°, 100%, 28%
HSV	188°, 100%, 56%
XYZ	11.8603, 16.0195, 27.9462
YIQ	88.3890, -79.4070, -20.1670

Conversions

Conversions Part 2

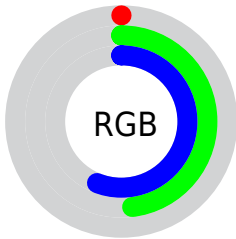
Format	Color
RYB	0, 66, 142
Decimal	31630
CIELab	47.00, -21.70, -18.48
CIELCh	47, 28.500, 220.425
Yxy	16.0195, 0.2125, 0.2870
Android (android.graphics.Color)	4278221710 (0xFF007B8E)
YUV	88.3890, 26.4302, -77.5172
Hunter-Lab	40.0243, -17.1479, -13.3811

Details

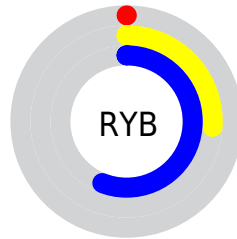
The CIELCh color `47, 28.500, 220.425` is a dark color, and the websafe version is hex `006666`. A complement of this color would be `30, 64.695, 41.643`, and the grayscale version is `37, 0.005, 296.813`.

A 20% lighter version of the original color is `67, 28.369, 220.634`, and `29, 20.724, 231.775` is the 20% darker color. If you saturate the color by 10%, you get `47, 28.303, 220.614`, and if you desaturate by 10%, it is `48, 27.780, 218.484`.

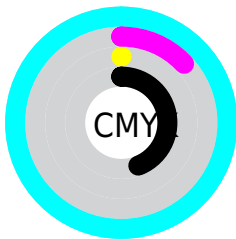
Distribution



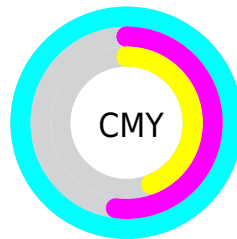
- Red (0%)
- Green (48%)
- Blue (56%)



- Red (0%)
- Yellow (26%)
- Blue (56%)



- Cyan (100%)
- Magenta (13%)
- Yellow (0%)
- Black (44%)



- Cyan (100%)
- Magenta (52%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 47, 28.500, 220.425 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 47, 28.500, 220.425 by changing the saturation by 10% instead.

 47, 28.500,
220.425

 47, 28.500,
220.425

 100, 28.500,
220.425

 37, 28.500,
220.425

 67, 28.500,
220.425

 27, 28.500,
220.425

 77, 28.500,
220.425

 17, 28.500,
220.425

 87, 28.500,
220.425

 7, 28.500, 220.425

 97, 28.500,
220.425

 0, 28.500, 220.425

 47, 28.500,

 47, 28.500,

220.425

220.425

■ 47, 28.303,
220.614

■ 48, 27.780,
218.484

■ 49, 26.861,
216.655

■ 49, 25.344,
215.220

■ 51, 23.210,
214.128

■ 52, 20.479,
213.327

■ 53, 17.201,
212.768

■ 54, 13.441,
212.409

■ 56, 9.273, 212.217

Harmonies

Complementary

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



47, 28.500, 220.425



30, 64.695, 41.643

Rectangle

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



47, 28.500, 220.425



47, 28.500, 270.425



47, 28.500, 40.425



47, 28.500, 90.425

Sweetspot

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



47, 28.303, 220.614



69, 16.564, 212.427



51, 74.361, 137.646



35, 11.099, 212.542



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



47, 28.303, 220.614



60, 34.207, 221.197



25, 58.462, 293.777



29, 2.716, 212.187



45, 27.350, 220.494



1, 1.878, 212.129

Inverse Universe

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



32, 67.350, 334.246



42, 81.314, 334.391



43, 53.279, 73.226



28, 5.114, 328.822



31, 65.098, 334.216



1, 3.434, 328.322

Previews

White Background



This preview shows how the CIE LCh color 47, 28.500, 220.425 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 47, 28.500, 220.425 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

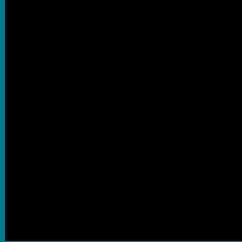
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 47, 28.500, 220.425

Background



This preview shows how black text looks on a background with the CIELCh color 47, 28.500, 220.425.

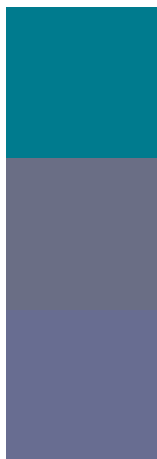


This preview shows how white text looks on a background with the CIELCh color 47, 28.500, 220.425.

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


47, 28.345, 220.602

Protanopia

47, 13.676, 285.795

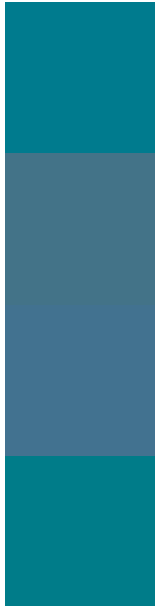
Deuteranopia

47, 21.360, 288.312



Tritanopia
47, 28.356, 208.856

Trichromacy



Original Color
47, 28.345, 220.602

Protanomaly
46, 19.416, 238.494

Deuteranomaly
46, 22.579, 251.114

Tritanomaly
47, 28.289, 212.718

Monochromacy



Original Color
47, 28.345, 220.602

Achromatopsia
37, 0.005, 296.813

Achromatomaly
40, 16.032, 213.223

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 47, 28.500, 220.425 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, 123, 142)` looks like.

```
.text, #text, p{  
    color:rgb(0, 123, 142)  
}
```

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, 123, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 142) }
```

Border

The CSS property to change the border of an element to CIELCh 47, 28.500, 220.425 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, 123, 142) }
```

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

```
.border{ border-color:rgb(0, 123, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 123, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 142);  
box-shadow:4px 4px 4px 4px rgb(0, 123,  
142) }
```

Background

The CSS property to change the background color of an element to CIELCh 47, 28.500, 220.425 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 123, 142) }
```

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

```
.background{ background-color: rgb(0, 123,  
142) }
```

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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