

Converting Colors

CIELCh(39, 87.763, 199.630)

Have a look what the booklet for
CIELCh(39, 87.763, 199.630)
contains.

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Color

CIELCh(46, 27.815, 222.644)

Conversions

Conversions Part 1

Format	Color
Hex	02788C
RGB	2, 120, 140
RGB Percent	1%, 47%, 55%
CMY	0.9908, 0.5305, 0.4520
CMYK	0.98, 0.14, 0.00, 0.45
HSL	189°, 97%, 28%
HSV	189°, 98%, 55%
XYZ	11.4279, 15.2687, 27.0574
YIQ	86.9980, -76.7480, -18.7960

Conversions

Conversions Part 2

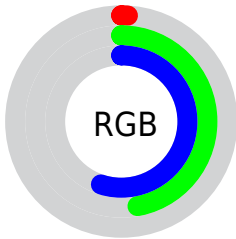
Format	Color
R_{YB}	2, 66, 140
Decimal	161932
CIE _{Lab}	46.00, -20.46, -18.84
CIE _{LCh}	46, 27.815, 222.644
Yxy	15.2687, 0.2126, 0.2840
Android (android.graphics.Color)	4278352012 (0xFF02788C)
YUV	86.9980, 26.1300, -74.5432
Hunter-Lab	39.0751, -16.1776, -13.7025

Details

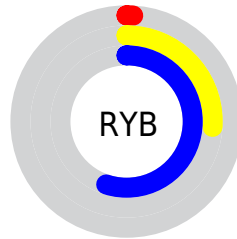
The CIELCh color **46, 27.815, 222.644** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **30, 62.815, 41.669**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **66, 27.873, 222.453**, and **27, 20.511, 234.805** is the 20% darker color. If you saturate the color by 10%, you get **46, 27.909, 223.035**, and if you desaturate by 10%, it is **47, 27.232, 220.320**.

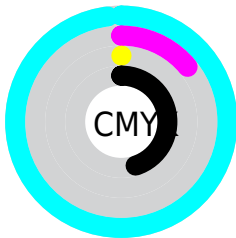
Distribution



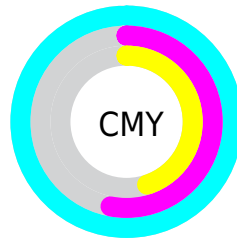
- Red (1%)
- Green (47%)
- Blue (55%)



- Red (1%)
- Yellow (26%)
- Blue (55%)



- Cyan (98%)
- Magenta (14%)
- Yellow (0%)
- Black (45%)



- Cyan (99%)
- Magenta (53%)
- Yellow (45%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 27.815, 222.644 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, 27.815, 222.644 by changing the saturation by 10% instead.


 46, 27.815,
222.644


 46, 27.815,
222.644


 100, 27.815,
222.644


 36, 27.815,
222.644


 66, 27.815,
222.644


 26, 27.815,
222.644


 76, 27.815,
222.644

 16, 27.815,
222.644

 86, 27.815,
222.644

 6, 27.815, 222.644

 96, 27.815,
222.644

 0, 27.815, 222.644

 46, 27.815,

 46, 27.815,

222.644

222.644

■ 46, 27.909,
223.035

■ 47, 27.232,
220.320

■ 48, 26.204,
218.373

■ 49, 24.590,
216.845

■ 50, 22.377,
215.677

■ 51, 19.591,
214.814

■ 52, 16.283,
214.202

■ 54, 12.518,
213.797

■ 55, 8.369, 213.565

Harmonies

Complementary

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



46, 27.815, 222.644



30, 62.815, 41.669

Rectangle

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



46, 27.815, 222.644



46, 27.815, 272.644



46, 27.815, 42.644



46, 27.815, 92.644

Sweetspot

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



46, 27.814, 222.644



68, 15.762, 213.839



50, 73.034, 137.814



35, 10.744, 213.980



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



46, 27.814, 222.644



59, 33.735, 223.685



25, 56.724, 293.174



28, 2.612, 213.501



44, 26.871, 222.886



1, 1.241, 213.395

Inverse Universe

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



32, 65.816, 334.740



42, 79.752, 335.016



42, 52.131, 73.592



27, 4.921, 329.201



30, 63.650, 334.815



0, 2.270, 328.700

Previews

White Background



This preview shows how the CIE LCh color 46, 27.815, 222.644 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, 27.815, 222.644 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

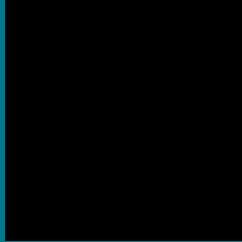
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 27.815, 222.644

Background



This preview shows how black text looks on a background with the CIELCh color 46, 27.815, 222.644.

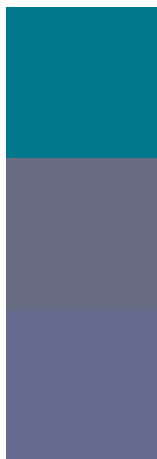


This preview shows how white text looks on a background with the CIELCh color 46, 27.815, 222.644.

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, 27.871, 222.551

Protanopia

46, 13.756, 284.314

Deuteranopia

46, 21.451, 287.451



Tritanopia
46, 27.899, 207.831

Trichromacy



Original Color
46, 27.871, 222.551

Protanomaly
45, 19.346, 241.343

Deuteranomaly
45, 22.447, 251.808

Tritanomaly
46, 27.742, 213.128

Monochromacy



Original Color
46, 27.871, 222.551

Achromatopsia
37, 0.005, 296.813

Achromatomaly
39, 15.491, 213.878

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 27.815, 222.644 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(2, 120, 140)` looks like.

```
.text, #text, p{  
    color:rgb(2, 120, 140)  
}
```

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(2, 120, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 120, 140) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 27.815, 222.644 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(2, 120, 140) }
```

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

```
.border{ border-color:rgb(2, 120, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(2, 120, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 120, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 120, 140);  
box-shadow:4px 4px 4px 4px rgb(2, 120,  
140) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 27.815, 222.644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 120, 140) }
```

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

```
.background{ background-color: rgb(2, 120,  
140) }
```

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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