

Converting Colors

CIELCh(45, 27.981, 228.306)

Have a look what the booklet for
CIELCh(45, 27.981, 228.306)
contains.

CIELCh(45, 28.015, 228.257)	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(45, 28.015, 228.257)

Conversions

Conversions Part 1

Format	Color
Hex	00758D
RGB	0, 117, 141
RGB Percent	0%, 46%, 55%
CMY	1.0000, 0.5426, 0.4485
CMYK	1.00, 0.17, 0.00, 0.45
HSL	190°, 100%, 28%
HSV	190°, 100%, 55%
XYZ	11.0837, 14.5417, 27.2748
YIQ	84.7530, -77.4360, -17.3400

Conversions

Conversions Part 2

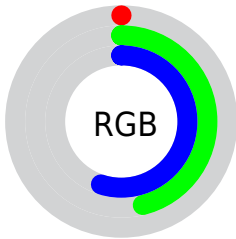
Format	Color
RYB	0, 64, 141
Decimal	30093
CIELab	45.00, -18.65, -20.90
CIELCh	45, 28.015, 228.257
Yxy	14.5417, 0.2095, 0.2749
Android (android.graphics.Color)	4278220173 (0xFF00758D)
YUV	84.7530, 27.7298, -74.3284
Hunter-Lab	38.1336, -14.8518, -15.7133

Details

The CIELCh color **45, 28.015, 228.257** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **30, 63.521, 42.672**, and the grayscale version is **36, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 28.035, 229.026**, and **26, 21.242, 243.235** is the 20% darker color. If you saturate the color by 10%, you get **45, 27.961, 228.327**, and if you desaturate by 10%, it is **46, 27.308, 225.512**.

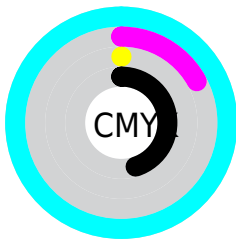
Distribution



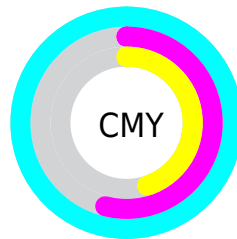
- Red (0%)
- Green (46%)
- Blue (55%)



- Red (0%)
- Yellow (25%)
- Blue (55%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (45%)




- Cyan (100%)
- Magenta (54%)
- Yellow (45%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 28.015, 228.257 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 45, 28.015, 228.257 by changing the saturation by 10% instead.

 45, 28.015,
228.257

 45, 28.015,
228.257


 100, 28.015,
228.257

 35, 28.015,
228.257

 65, 28.015,
228.257


 25, 28.015,
228.257

 75, 28.015,
228.257

 15, 28.015,
228.257

 85, 28.015,
228.257

 5, 28.015, 228.257

 95, 28.015,
228.257

 0, 28.015, 228.257

 45, 28.015,

 45, 28.015,

228.257

■ 45, 27.961,
228.327

228.257

■ 46, 27.308,
225.512

■ 47, 26.305,
223.065

■ 48, 24.749,
221.115

■ 49, 22.615,
219.597

■ 50, 19.919,
218.443

■ 52, 16.707,
217.589

■ 53, 13.040,
216.982

■ 55, 8.989, 216.576

Harmonies

Complementary

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



45, 28.015, 228.257



30, 63.521, 42.672

Rectangle

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



45, 28.015, 228.257



45, 28.015, 278.257



45, 28.015, 48.257



45, 28.015, 98.257

Sweetspot

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



45, 27.961, 228.327



68, 16.172, 217.015



51, 72.881, 138.251



35, 10.840, 217.219



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



45, 27.961, 228.327



58, 34.031, 229.117



23, 61.370, 295.774



29, 2.647, 216.347



43, 27.166, 228.194



1, 1.830, 216.137

Inverse Universe

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



32, 65.152, 336.207



42, 79.056, 336.414



44, 53.027, 76.325



28, 4.984, 330.033



30, 63.331, 336.172



1, 3.346, 329.519

Previews

White Background



This preview shows how the CIE LCh color 45, 28.015, 228.257 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 45, 28.015, 228.257 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

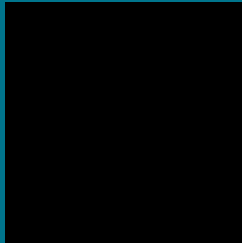
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 28.015, 228.257

Background



This preview shows how black text looks on a background with the CIELCh color 45, 28.015, 228.257.

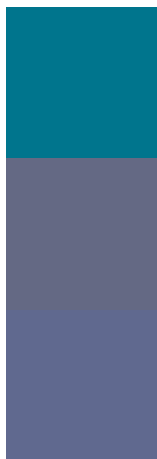


This preview shows how white text looks on a background with the CIELCh color 45, 28.015, 228.257.

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

45, 28.015, 228.257

Protanopia

45, 16.183, 285.938

Deuteranopia

45, 22.787, 285.467



Tritanopia
45, 27.392, 208.099

Trichromacy



Original Color
45, 28.015, 228.257

Protanomaly
44, 20.591, 248.013

Deuteranomaly
44, 23.861, 255.046

Tritanomaly
45, 27.312, 214.828

Monochromacy



Original Color
45, 28.015, 228.257

Achromatopsia
36, 0.005, 296.813

Achromatomaly
38, 15.658, 218.607

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 28.015, 228.257 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, 117, 141)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 141)  
}
```

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, 117, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 141) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 28.015, 228.257 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, 117, 141) }
```

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

```
.border{ border-color:rgb(0, 117, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 117, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 141);  
box-shadow:4px 4px 4px 4px rgb(0, 117,  
141) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 28.015, 228.257 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 117, 141) }
```

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

```
.background{ background-color: rgb(0, 117,  
141) }
```

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