

Converting Colors

CIELCh(45, 27.909, 228.517)

Have a look what the booklet for
CIELCh(45, 27.909, 228.517)
contains.

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Color

CIELCh(45, 27.969, 228.318)

Conversions

Conversions Part 1

Format	Color
Hex	00758D
RGB	0, 117, 141
RGB Percent	0%, 46%, 55%
CMY	1.0000, 0.5427, 0.4486
CMYK	1.00, 0.17, 0.00, 0.45
HSL	190°, 100%, 28%
HSV	190°, 100%, 55%
XYZ	11.0909, 14.5417, 27.2654
YIQ	84.7530, -77.4360, -17.3400

Conversions

Conversions Part 2

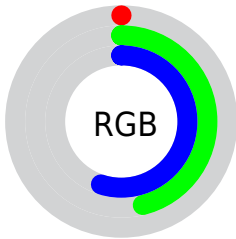
Format	Color
RYB	0, 64, 141
Decimal	30093
CIELab	45.00, -18.60, -20.89
CIELCh	45, 27.969, 228.318
Yxy	14.5417, 0.2097, 0.2749
Android (android.graphics.Color)	4278220173 (0xFF00758D)
YUV	84.7530, 27.7298, -74.3284
Hunter-Lab	38.1336, -14.8181, -15.6987

Details

The CIELCh color **45, 27.969, 228.318** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **30, 63.512, 42.673**, 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, 27.958, 228.331**, and if you desaturate by 10%, it is **46, 27.304, 225.516**.

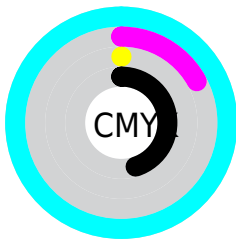
Distribution



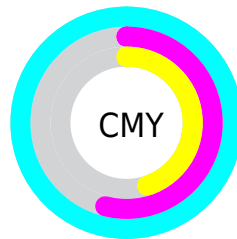
- Red (0%)
- Green (46%)
- Blue (55%)



- 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, 27.969, 228.318 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, 27.969, 228.318 by changing the saturation by 10% instead.


 45, 27.969,
228.318


 45, 27.969,
228.318


 100, 27.969,
228.318


 35, 27.969,
228.318

 65, 27.969,
228.318


 25, 27.969,
228.318

 75, 27.969,
228.318

 15, 27.969,
228.318

 85, 27.969,
228.318

 5, 27.969, 228.318

 95, 27.969,
228.318

 0, 27.969, 228.318

 45, 27.969,

 45, 27.969,

228.318

228.318

■ 45, 27.958,
228.331

■ 46, 27.304,
225.516

■ 47, 26.302,
223.069

■ 48, 24.745,
221.119

■ 49, 22.611,
219.601

■ 50, 19.916,
218.446

■ 52, 16.704,
217.593

■ 53, 13.038,
216.985

■ 55, 8.988, 216.579

Harmonies

Complementary

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



45, 27.969, 228.318



30, 63.512, 42.673

Rectangle

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



45, 27.969, 228.318



45, 27.969, 278.318



45, 27.969, 48.318



45, 27.969, 98.318

Sweetspot

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



45, 27.958, 228.331



68, 16.172, 217.018



51, 72.872, 138.251



35, 10.840, 217.222



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, 27.958, 228.331



58, 34.031, 229.122



23, 61.361, 295.773



29, 2.647, 216.350



43, 27.166, 228.199



1, 1.830, 216.140

Inverse Universe

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



32, 65.144, 336.208



42, 79.054, 336.415



44, 53.021, 76.325



28, 4.984, 330.033



30, 63.330, 336.174



1, 3.346, 329.520

Previews

White Background



This preview shows how the CIE LCh color 45, 27.969, 228.318 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, 27.969, 228.318 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

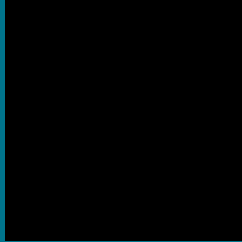
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 27.969, 228.318

Background



This preview shows how black text looks on a background with the CIELCh color 45, 27.969, 228.318.

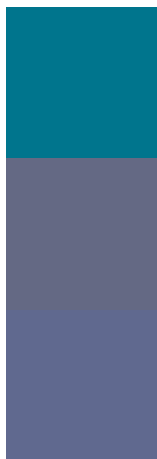


This preview shows how white text looks on a background with the CIELCh color 45, 27.969, 228.318.

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, 27.175, 216.329

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, 27.969, 228.318 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, 27.969, 228.318 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, 27.969, 228.318 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](#).

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