

Converting Colors

CIELCh(45, 28.325, 231.116)

Have a look what the booklet for
CIELCh(45, 28.325, 231.116)
contains.

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Color

CIELCh(45, 28.393, 232.287)

Conversions

Conversions Part 1

Format	Color
Hex	01748F
RGB	1, 116, 143
RGB Percent	0%, 45%, 56%
CMY	0.9969, 0.5442, 0.4382
CMYK	0.99, 0.19, 0.00, 0.44
HSL	191°, 99%, 28%
HSV	191°, 99%, 56%
XYZ	11.2594, 14.5417, 28.2987
YIQ	84.6930, -77.2070, -15.9830

Conversions

Conversions Part 2

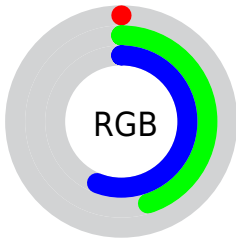
Format	Color
RYB	1, 65, 143
Decimal	95375
CIELab	45.00, -17.37, -22.46
CIELCh	45, 28.393, 232.287
Yxy	14.5417, 0.2081, 0.2688
Android (android.graphics.Color)	4278285455 (0xFF01748F)
YUV	84.6930, 28.7454, -73.3988
Hunter-Lab	38.1336, -14.0294, -17.3052

Details

The CIELCh color **45, 28.393, 232.287** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **31, 63.736, 43.270**, and the grayscale version is **36, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 28.449, 232.655**, and **27, 21.918, 246.519** is the 20% darker color. If you saturate the color by 10%, you get **45, 28.435, 232.461**, and if you desaturate by 10%, it is **46, 27.633, 229.117**.

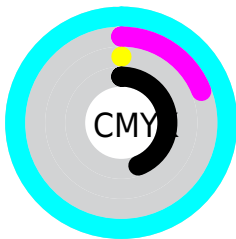
Distribution



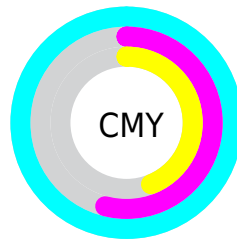
- Red (0%)
- Green (45%)
- Blue (56%)



- Red (0%)
- Yellow (25%)
- Blue (56%)



- Cyan (99%)
- Magenta (19%)
- Yellow (0%)
- Black (44%)




- Cyan (100%)
- Magenta (54%)
- Yellow (44%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 28.393, 232.287 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, 28.393, 232.287 by changing the saturation by 10% instead.


 45, 28.393,
232.287


 45, 28.393,
232.287


 100, 28.393,
232.287


 35, 28.393,
232.287

 65, 28.393,
232.287


 25, 28.393,
232.287

 75, 28.393,
232.287

 15, 28.393,
232.287

 85, 28.393,
232.287

 5, 28.393, 232.287

 95, 28.393,
232.287

 0, 28.393, 232.287

 45, 28.393,

 45, 28.393,

232.287

■ 45, 28.435,
232.461

232.287

■ 46, 27.633,
229.117

■ 47, 26.519,
226.377

■ 48, 24.866,
224.180

■ 50, 22.648,
222.456

■ 51, 19.879,
221.131

■ 53, 16.605,
220.134

■ 54, 12.887,
219.405

■ 56, 8.792, 218.896

Harmonies

Complementary

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



45, 28.393, 232.287



31, 63.736, 43.270

Rectangle

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



45, 28.393, 232.287



45, 28.393, 282.287



45, 28.393, 52.287



45, 28.393, 102.287

Sweetspot

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



45, 28.392, 232.287



69, 16.188, 219.479



52, 73.134, 138.620



36, 10.975, 219.737



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



45, 28.392, 232.287



58, 34.532, 233.314



23, 63.583, 296.601



29, 2.618, 218.582



42, 27.250, 232.244



1, 1.808, 218.291

Inverse Universe

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



32, 65.020, 337.253



42, 78.723, 337.535



45, 53.658, 77.915



28, 4.917, 330.686



30, 62.449, 337.245



1, 3.300, 330.164

Previews

White Background



This preview shows how the CIE LCh color 45, 28.393, 232.287 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, 28.393, 232.287 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

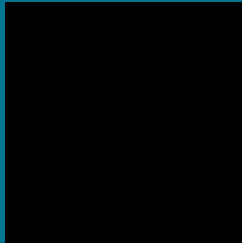
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 28.393, 232.287

Background



This preview shows how black text looks on a background with the CIELCh color 45, 28.393, 232.287.

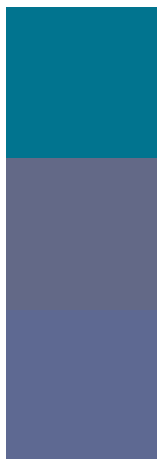


This preview shows how white text looks on a background with the CIELCh color 45, 28.393, 232.287.

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, 28.349, 232.353

Protanopia

45, 17.985, 285.766

Deuteranopia

45, 24.615, 284.839



Tritanopia
45, 27.392, 208.099

Trichromacy



Original Color
45, 28.349, 232.353

Protanomaly
44, 21.921, 251.393

Deuteranomaly
44, 25.291, 257.705

Tritanomaly
45, 27.214, 217.683

Monochromacy



Original Color
45, 28.349, 232.353

Achromatopsia
36, 0.005, 296.813

Achromatomaly
38, 15.531, 221.312

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 28.393, 232.287 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(1, 116, 143)` looks like.

```
.text, #text, p{  
    color:rgb(1, 116, 143)  
}
```

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(1, 116, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 116, 143) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 28.393, 232.287 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(1, 116, 143) }
```

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

```
.border{ border-color:rgb(1, 116, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 116, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 116, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 116, 143);  
box-shadow:4px 4px 4px 4px rgb(1, 116,  
143) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 28.393, 232.287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 116, 143) }
```

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

```
.background{ background-color: rgb(1, 116,  
143) }
```

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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