

Converting Colors

CIELCh(46, 40.124, 249.601)

Have a look what the booklet for
CIELCh(46, 40.124, 249.601)
contains.

CIELCh(47, 36.434, 256.558)	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, 36.434, 256.558)

Conversions

Conversions Part 1

Format	Color
Hex	0077AB
RGB	0, 119, 171
RGB Percent	0%, 47%, 67%
CMY	1.0000, 0.5348, 0.3310
CMYK	1.00, 0.30, 0.00, 0.33
HSL	198°, 100%, 33%
HSV	198°, 100%, 67%
XYZ	13.8453, 16.0195, 40.6883
YIQ	89.3470, -87.6160, -9.0560

Conversions

Conversions Part 2

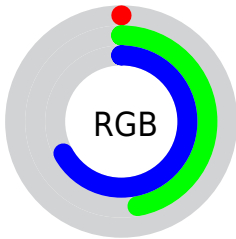
Format	Color
RYB	0, 70, 171
Decimal	30635
CIELab	47.00, -8.47, -35.44
CIELCh	47, 36.434, 256.558
Yxy	16.0195, 0.1962, 0.2271
Android (android.graphics.Color)	4278220715 (0xFF0077AB)
YUV	89.3470, 40.2549, -78.3573
Hunter-Lab	40.0243, -8.2953, -32.2566

Details

The CIELCh color **47, 36.434, 256.558** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **40, 69.633, 47.851**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **67, 36.576, 256.888**, and **29, 32.225, 269.933** is the 20% darker color. If you saturate the color by 10%, you get **47, 36.398, 256.649**, and if you desaturate by 10%, it is **49, 34.326, 251.922**.

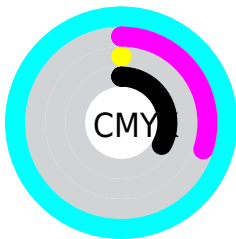
Distribution



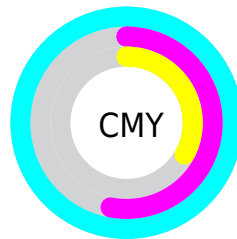
- Red (0%)
- Green (47%)
- Blue (67%)



- Red (0%)
- Yellow (27%)
- Blue (67%)



- Cyan (100%)
- Magenta (30%)
- Yellow (0%)
- Black (33%)




- Cyan (100%)
- Magenta (53%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 47, 36.434, 256.558 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, 36.434, 256.558 by changing the saturation by 10% instead.

 47, 36.434,
256.558


 47, 36.434,
256.558


 100, 36.434,
256.558


 37, 36.434,
256.558

 67, 36.434,
256.558


 27, 36.434,
256.558

 77, 36.434,
256.558

 17, 36.434,
256.558

 87, 36.434,
256.558

 7, 36.434, 256.558

 97, 36.434,
256.558

 0, 36.434, 256.558

 47, 36.434,

 47, 36.434,

256.558

■ 47, 36.398,
256.649

256.558

■ 49, 34.326,
251.922

■ 51, 32.098,
247.625

■ 53, 29.513,
243.994

■ 55, 26.490,
241.005

■ 57, 23.008,
238.586

■ 59, 19.085,
236.651

■ 62, 14.766,
235.115

■ 64, 10.107,
233.907

Harmonies

Complementary

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



47, 36.434, 256.558



40, 69.633, 47.851

Rectangle

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



47, 36.434, 256.558



47, 36.434, 306.558



47, 36.434, 76.558



47, 36.434, 126.558

Sweetspot

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



47, 36.398, 256.649



79, 18.256, 235.189



61, 78.243, 141.270



41, 12.403, 235.782



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



47, 36.398, 256.649



60, 44.670, 257.645



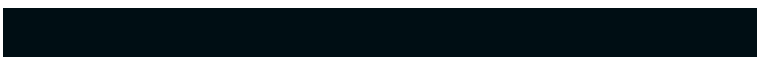
24, 86.160, 302.286



34, 2.896, 232.926



41, 32.591, 255.999



3, 5.422, 241.457

Inverse Universe

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



38, 68.178, 345.096



49, 82.659, 345.499



58, 63.261, 87.974



33, 5.193, 335.065



32, 61.523, 344.838



2, 8.910, 337.703

Previews

White Background



This preview shows how the CIELCh color 47, 36.434, 256.558 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 CIE LCh color 47, 36.434, 256.558 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, 36.434, 256.558

Background



This preview shows how black text looks on a background with the CIELCh color 47, 36.434, 256.558.

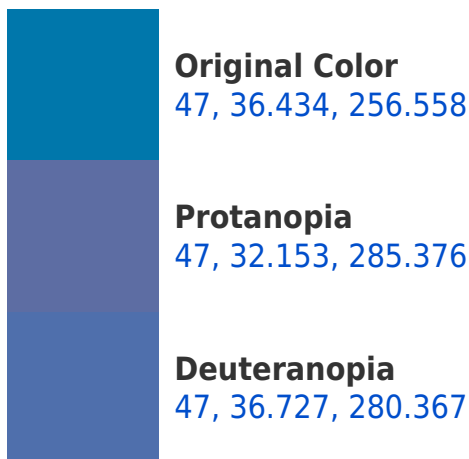


This preview shows how white text looks on a background with the CIELCh color 47, 36.434, 256.558.

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





Tritanopia
47, 28.404, 207.575

Trichromacy



Original Color
47, 36.434, 256.558

Protanomaly
46, 33.770, 268.612

Deuteranomaly
47, 36.392, 268.144

Tritanomaly
47, 28.880, 228.361

Monochromacy



Original Color
47, 36.434, 256.558

Achromatopsia
38, 0.005, 296.813

Achromatomaly
40, 17.839, 238.954

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 47, 36.434, 256.558 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, 119, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 171)  
}
```

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, 119, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 171) }
```

Border

The CSS property to change the border of an element to CIELCh 47, 36.434, 256.558 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, 119, 171) }
```

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

```
.border{ border-color:rgb(0, 119, 171) }
```

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

Here you see how a box with a 4 pixel rgb(0, 119, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
171) }
```

Background

The CSS property to change the background color of an element to CIELCh 47, 36.434, 256.558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 171) }
```

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

```
.background{ background-color: rgb(0, 119,  
171) }
```

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