

# Converting Colors

CIELCh(76, 45.572, 187.160)

Have a look what the booklet for  
CIELCh(76, 45.572, 187.160)  
contains.

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**Color**

**CIELCh(76, 45.849, 186.600)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D2C4
RGB	0, 210, 196
RGB Percent	0%, 82%, 77%
CMY	0.9998, 0.1779, 0.2327
CMYK	1.00, 0.00, 0.07, 0.18
HSL	176°, 100%, 41%
HSV	176°, 100%, 82%
XYZ	32.8832, 49.8872, 59.9144
YIQ	145.6140, -120.6660, -48.8740

# Conversions

## Conversions Part 2

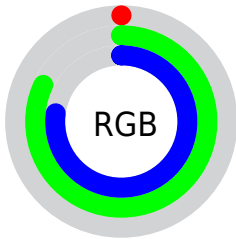
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 109, 210
Decimal	53956
CIELab	76.00, -45.55, -5.27
CIELCh	76, 45.849, 186.600
Yxy	49.8872, 0.2305, 0.3496
Android (android.graphics.Color)	4278244036 (0xFF00D2C4)
YUV	145.6140, 24.8403, -127.7035
Hunter-Lab	70.6309, -40.5009, -0.8525

# Details

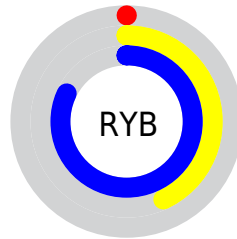
The CIELCh color **76, 45.849, 186.600** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **44, 87.487, 37.689**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **92, 41.130, 195.441**, and **57, 37.242, 184.518** is the 20% darker color. If you saturate the color by 10%, you get **76, 45.851, 186.597**, and if you desaturate by 10%, it is **76, 44.854, 187.441**.

# Distribution



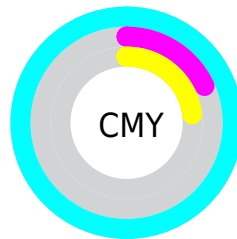
- Red (0%)
- Green (82%)
- Blue (77%)



- Red (0%)
- Yellow (43%)
- Blue (82%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (18%)



- Cyan (100%)
- Magenta (18%)
- Yellow (23%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 76, 45.849, 186.600 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 76, 45.849, 186.600 by changing the saturation by 10% instead.




 76, 45.849,  
186.600

 76, 45.849,  
186.600


 100, 45.849,  
186.600

 66, 45.849,  
186.600

 96, 45.849,  
186.600

 56, 45.849,  
186.600

 46, 45.849,  
186.600

 36, 45.849,  
186.600

 26, 45.849,  
186.600

 16, 45.849,  
186.600

 6, 45.849, 186.600

■ 0, 45.849, 186.600

■ 76, 45.849,  
186.600

■ 76, 45.849,  
186.600

■ 76, 45.851,  
186.597

■ 76, 44.854,  
187.441

■ 76, 43.149,  
188.236

■ 77, 40.545,  
188.985

■ 77, 37.003,  
189.703

■ 78, 32.550,  
190.404

■ 79, 27.258,  
191.099

■ 80, 21.232,  
191.796

■ 81, 14.594,  
192.503

■ 83, 7.470, 193.240

# Harmonies

# Complementary

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



76, 45.849, 186.600



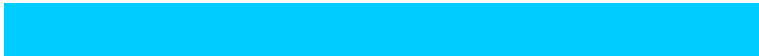
44, 87.487, 37.689

# Rectangle

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



76, 45.849, 186.600



76, 45.849, 236.600



76, 45.849, 6.600



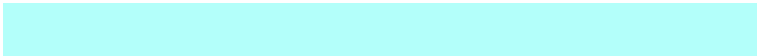
76, 45.849, 56.600

# Sweetspot

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



76, 45.849, 186.599



95, 24.876, 191.771



74, 102.868, 135.693



50, 16.712, 191.473



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



76, 45.849, 186.599



91, 53.190, 186.493



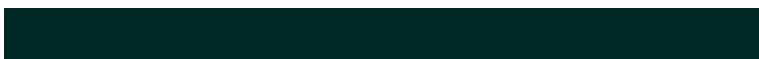
50, 52.947, 275.034



43, 4.244, 193.285



62, 38.894, 186.737



14, 14.684, 188.520



# Inverse Universe

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



44, 87.487, 37.689



53, 101.931, 38.085



52, 76.714, 53.930



41, 4.470, 14.529



35, 73.760, 37.111

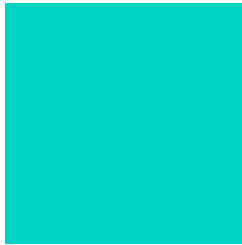


4, 20.030, 16.355



# Previews

## White Background



This preview shows how the CIE LCh color 76, 45.849, 186.600 looks on a white background.

## Color Contrast Check

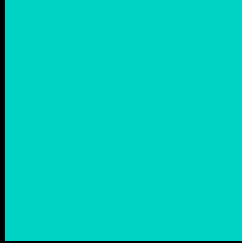
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 76, 45.849, 186.600 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

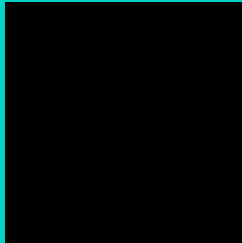
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

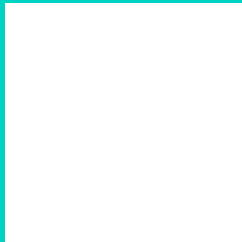
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 76, 45.849, 186.600**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 76, 45.849, 186.600.

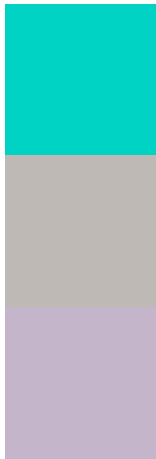


This preview shows how white text looks on a background with the CIELCh color 76, 45.849, 186.600.

# 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

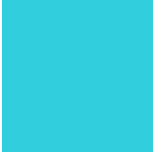


**Original Color**  
76, 45.905, 186.608

**Protanopia**  
75, 2.838, 68.506

**Deuteranopia**  
76, 12.790, 318.089





**Tritanopia**  
76, 38.663, 209.867

# Trichromacy



**Original Color**  
76, 45.905, 186.608



**Protanomaly**  
74, 24.821, 187.375



**Deuteranomaly**  
73, 21.719, 210.959



**Tritanomaly**  
76, 40.971, 200.366

# Monochromacy



**Original Color**  
76, 45.905, 186.608



**Achromatopsia**  
60, 0.008, 296.813



**Achromatomaly**  
64, 25.652, 189.692

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 76, 45.849, 186.600 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, 210, 196)` looks like.

```
.text, #text, p{  
    color:rgb(0, 210, 196)  
}
```

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, 210, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 210, 196) }
```

## Border

The CSS property to change the border of an element to CIELCh 76, 45.849, 186.600 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, 210, 196) }
```

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

```
.border{ border-color:rgb(0, 210, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 210, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 210, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 210, 196);  
box-shadow:4px 4px 4px 4px rgb(0, 210,  
196) }
```

# Background

The CSS property to change the background color of an element to CIELCh 76, 45.849, 186.600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 210, 196) }
```

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

```
.background{ background-color: rgb(0, 210,  
196) }
```

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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