

Converting Colors

CIELCh(90, 51.488, 103.592)

Have a look what the booklet for
CIELCh(90, 51.488, 103.592)
contains.

CIELCh(90, 51.441, 103.663)	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(90, 51.441, 103.663)

Conversions

Conversions Part 1

Format	Color
Hex	ECE781
RGB	236, 231, 129
RGB Percent	93%, 91%, 51%
CMY	0.0759, 0.0955, 0.4954
CMYK	0.00, 0.02, 0.45, 0.08
HSL	57°, 73%, 71%
HSV	57°, 45%, 92%
XYZ	66.8904, 76.3034, 31.8568
YIQ	220.8670, 35.7220, -30.6620

Conversions

Conversions Part 2

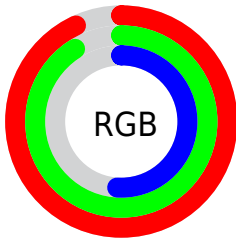
Format	Color
RYB	134, 236, 129
Decimal	15525761
CIELab	90.00, -12.15, 49.99
CIELCh	90, 51.441, 103.663
Yxy	76.3034, 0.3821, 0.4359
Android (android.graphics.Color)	4293715841 (0xFFECE781)
YUV	220.8670, -45.2904, 13.2716
Hunter-Lab	87.3518, -16.1778, 39.5234

Details

The CIELCh color **90, 51.441, 103.663** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **60, 57.555, 294.886**, and the grayscale version is **88, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 35.677, 107.459**, and **70, 51.466, 104.004** is the 20% darker color. If you saturate the color by 10%, you get **89, 61.759, 102.717**, and if you desaturate by 10%, it is **91, 40.517, 104.661**.

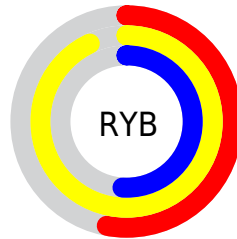
Distribution



Red (93%)

Green (91%)

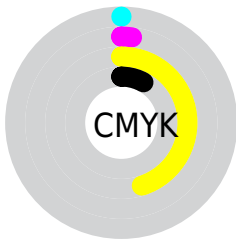
Blue (51%)



Red (53%)

Yellow (93%)

Blue (51%)

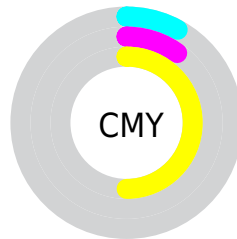


Cyan (0%)

Magenta (2%)

Yellow (45%)

Black (8%)



Cyan (8%)


Magenta (10%)


Yellow (50%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 51.441, 103.663 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 90, 51.441, 103.663 by changing the saturation by 10% instead.


 90, 51.441,
103.663


 90, 51.441,
103.663


 100, 51.441,
103.663


 80, 51.441,
103.663

 70, 51.441,
103.663

 60, 51.441,
103.663

 50, 51.441,
103.663

 40, 51.441,
103.663

 30, 51.441,
103.663

 20, 51.441,

103.663

■ 10, 51.441,
103.663

■ 0, 51.441, 103.663

■ 90, 51.441,
103.663

■ 90, 51.441,
103.663

■ 89, 61.759,
102.717

■ 91, 40.517,
104.661

■ 89, 71.074,
101.844

■ 91, 29.240,
105.679

■ 89, 78.843,
101.077

■ 92, 17.777,
106.699

■ 88, 84.445,
100.446


■ 93, 6.229, 107.702

■ 94, 5.340, 288.725

 88, 87.442, 99.962

 94, 9.156, 287.463

 88, 88.186, 99.772

 94, 8.611, 284.693

 95, 8.089, 281.562

 95, 7.595, 278.018

Harmonies

Complementary

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



90, 51.441, 103.663



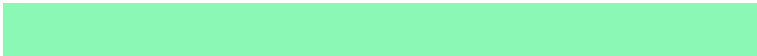
60, 57.555, 294.886

Rectangle

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



90, 51.441, 103.663



90, 51.441, 153.663



90, 51.441, 283.663



90, 51.441, 333.663

Sweetspot

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



90, 51.442, 103.666



99, 17.241, 106.835



66, 44.335, 20.630



53, 11.898, 106.614



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



90, 51.442, 103.666



96, 64.335, 102.824



88, 57.113, 125.116



49, 6.541, 107.298



69, 72.431, 99.826



21, 29.414, 100.906

Inverse Universe

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



60, 57.555, 294.886



57, 74.325, 296.773



62, 61.587, 309.817



45, 6.675, 289.275



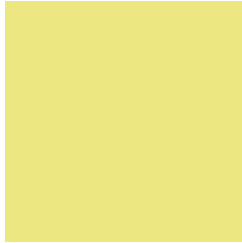
22, 101.345, 305.714



3, 34.576, 296.894

Previews

White Background



This preview shows how the CIELCh color 90, 51.441, 103.663 looks on a white background.

Color Contrast Check

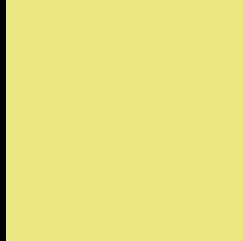
Large Text (above 18pt) WCAG AA × Fail

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 90, 51.441, 103.663 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

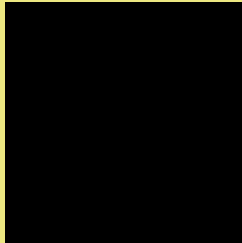
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

CIELCh 90, 51.441, 103.663

Background



This preview shows how black text looks on a background with the CIELCh color 90, 51.441, 103.663.



This preview shows how white text looks on a background with the CIELCh color 90, 51.441, 103.663.

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
90, 51.441, 103.663

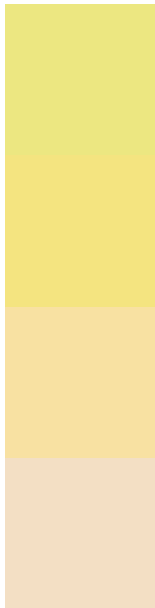
Protanopia
90, 51.117, 95.258

Deuteranopia
90, 24.741, 75.904



Tritanopia
90, 13.656, 340.167

Trichromacy



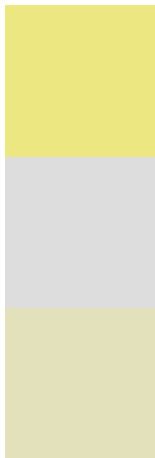
Original Color
90, 51.441, 103.663

Protanomaly
90, 51.014, 98.553

Deuteranomaly
90, 33.745, 91.687

Tritanomaly
90, 15.935, 80.508

Monochromacy



Original Color
90, 51.441, 103.663

Achromatopsia
88, 0.010, 296.813

Achromatomaly
89, 19.659, 107.432

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 90, 51.441, 103.663 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(236, 231, 129)` looks like.

```
.text, #text, p{  
    color:rgb(236, 231, 129)  
}
```

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(236, 231, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 231, 129) }
```

Border

The CSS property to change the border of an element to CIELCh 90, 51.441, 103.663 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(236, 231, 129) }
```

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

```
.border{ border-color:rgb(236, 231, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 231, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 231, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 231, 129);  
box-shadow:4px 4px 4px 4px rgb(236, 231,  
129) }
```

Background

The CSS property to change the background color of an element to CIELCh 90, 51.441, 103.663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 231, 129) }
```

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

```
.background{ background-color: rgb(236,  
231, 129) }
```

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