

# Converting Colors

CIELCh(90, 51.603, 105.838)

Have a look what the booklet for  
CIELCh(90, 51.603, 105.838)  
contains.

<b>CIELCh(90, 51.836, 105.916)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

**Color**

**CIELCh(90, 51.836, 105.916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8E881
RGB	232, 232, 129
RGB Percent	91%, 91%, 51%
CMY	0.0910, 0.0909, 0.4948
CMYK	0.00, 0.00, 0.44, 0.09
HSL	60°, 69%, 71%
HSV	60°, 44%, 91%
XYZ	65.9634, 76.3034, 31.9551
YIQ	220.2580, 33.0630, -32.0330

# Conversions

## Conversions Part 2

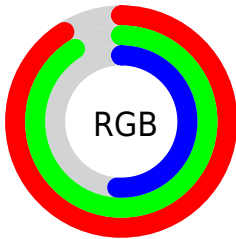
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 232, 129
Decimal	15263873
CIE <sub>Lab</sub>	90.00, -14.21, 49.85
CIE <sub>LCh</sub>	90, 51.836, 105.916
Yxy	76.3034, 0.3786, 0.4380
Android (android.graphics.Color)	4293453953 (0xFFE8E881)
YUV	220.2580, -44.9902, 10.2977
Hunter-Lab	87.3518, -18.0720, 39.4567

# Details

The CIELCh color  $90, 51.836, 105.916$  is a light color, and the websafe version is hex  $FFFF99$ . A complement of this color would be  $58, 58.416, 296.425$ , 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  $70, 51.894, 105.922$  is the 20% darker color. If you saturate the color by 10%, you get  $90, 62.398, 105.053$ , and if you desaturate by 10%, it is  $90, 40.631, 106.847$ .

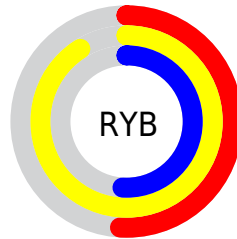
# Distribution



Red (91%)

Green (91%)

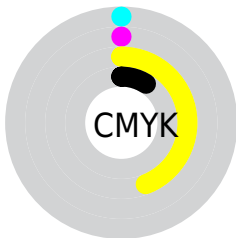
Blue (51%)



Red (51%)

Yellow (91%)

Blue (51%)

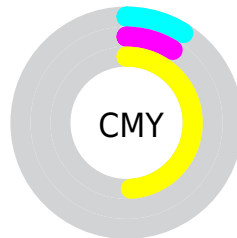


Cyan (0%)

Magenta (0%)

Yellow (44%)

Black (9%)



Cyan (9%)

Magenta (9%)


Yellow (49%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 51.836, 105.916 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, 51.836, 105.916 by changing the saturation by 10% instead.





 90, 51.836,  
105.916


 90, 51.836,  
105.916


 100, 51.836,  
105.916


 80, 51.836,  
105.916

 70, 51.836,  
105.916

 60, 51.836,  
105.916

 50, 51.836,  
105.916

 40, 51.836,  
105.916

 30, 51.836,  
105.916

 20, 51.836,

105.916

■ 10, 51.836,  
105.916

■ 0, 51.836, 105.916

■ 90, 51.836,  
105.916

■ 90, 51.836,  
105.916

■ 90, 62.398,  
105.053

■ 90, 40.631,  
106.847

■ 90, 71.929,  
104.283

■ 91, 29.036,  
107.809


■ 89, 79.915,  
103.650


■ 91, 17.220,  
108.782


■ 89, 85.783,  
103.194


■ 92, 5.291, 109.744


■ 92, 6.682, 290.722


 89, 89.142,  
102.937

 93, 11.994,  
291.135

 89, 90.167,  
102.859

 93, 11.994,  
291.139

 93, 11.994,  
291.143

 93, 11.994,  
291.148

# Harmonies

# Complementary

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



90, 51.836, 105.916



58, 58.416, 296.425

# Rectangle

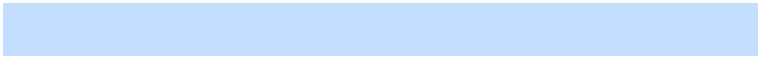
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 51.836, 105.916



90, 51.836, 155.916



90, 51.836, 285.916



90, 51.836, 335.916

# Sweetspot

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



90, 51.837, 105.919



99, 16.767, 108.915



65, 43.258, 24.102



53, 11.725, 108.699



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, 51.837, 105.919



98, 65.802, 105.148



86, 55.947, 126.983



48, 6.730, 109.265



71, 74.152, 102.859



20, 29.319, 103.662



# Inverse Universe

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



58, 58.416, 296.425



57, 76.666, 298.224



63, 59.720, 311.326



44, 6.881, 291.166



21, 102.391, 306.288

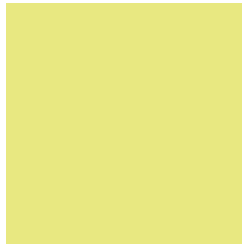


2, 33.677, 296.778



# Previews

## White Background



This preview shows how the CIELCh color 90, 51.836, 105.916 looks on a white background.

## Color Contrast Check

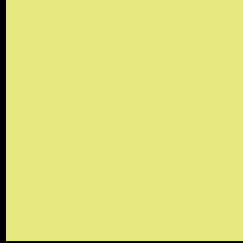
Large Text (above 18pt) WCAG AA × Fail

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, 51.836, 105.916 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

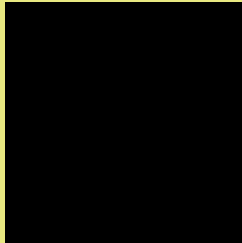
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 90, 51.836, 105.916**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 51.836, 105.916.



This preview shows how white text looks on a background with the CIELCh color 90, 51.836, 105.916.

# 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, 51.836, 105.916

**Protanopia**  
90, 51.117, 95.258

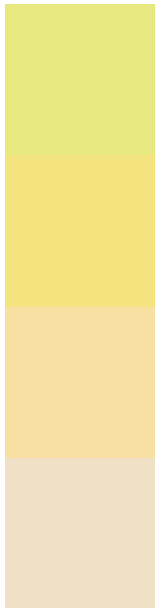
**Deuteranopia**  
90, 24.547, 74.549





**Tritanopia**  
90, 12.954, 334.153

# Trichromacy



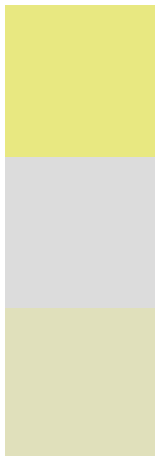
**Original Color**  
90, 51.836, 105.916

**Protanomaly**  
90, 50.956, 99.014

**Deuteranomaly**  
90, 33.282, 91.493

**Tritanomaly**  
90, 14.761, 84.854

# Monochromacy



**Original Color**  
90, 51.836, 105.916

**Achromatopsia**  
88, 0.010, 296.813

**Achromatomaly**  
88, 19.159, 108.577

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 51.836, 105.916 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(232, 232, 129)` looks like.

```
.text, #text, p{  
    color:rgb(232, 232, 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(232, 232, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 232, 129) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 51.836, 105.916 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(232, 232, 129) }
```

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

```
.border{ border-color:rgb(232, 232, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 232, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 232, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 232, 129);  
box-shadow:4px 4px 4px 4px rgb(232, 232,  
129) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 51.836, 105.916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 232, 129) }
```

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

```
.background{ background-color: rgb(232,  
232, 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](#).

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