

Converting Colors

CIELCh(90, 12.680, 197.693)

Have a look what the booklet for
CIELCh(90, 12.680, 197.693)
contains.

CIELCh(90, 12.981, 196.274)	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, 12.981, 196.274)

Conversions

Conversions Part 1

Format	Color
Hex	C4EAE9
RGB	196, 234, 233
RGB Percent	77%, 92%, 91%
CMY	0.2322, 0.0832, 0.0871
CMYK	0.16, 0.00, 0.00, 0.08
HSL	178°, 47%, 84%
HSV	178°, 16%, 92%
XYZ	66.7506, 76.3034, 88.1418
YIQ	222.5240, -22.3270, -8.3670

Conversions

Conversions Part 2

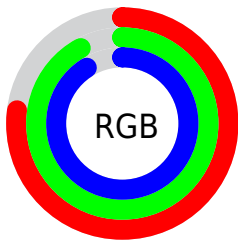
Format	Color
R _Y B	196, 215, 234
Decimal	12905193
CIE Lab	90.00, -12.46, -3.64
CIE LCh	90, 12.981, 196.274
Yxy	76.3034, 0.2887, 0.3300
Android (android.graphics.Color)	4291095273 (0xFFC4EAE9)
YUV	222.5240, 5.1647, -23.2615
Hunter-Lab	87.3518, -16.4634, 1.3200

Details

The CIELCh color **90, 12.981, 196.274** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **82, 14.356, 18.406**, and the grayscale version is **89, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.695, 200.315**, and **70, 12.810, 195.924** is the 20% darker color. If you saturate the color by 10%, you get **89, 20.319, 195.676**, and if you desaturate by 10%, it is **92, 5.122, 196.941**.

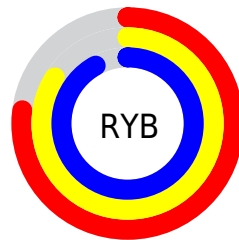
Distribution



Red (77%)

Green (92%)

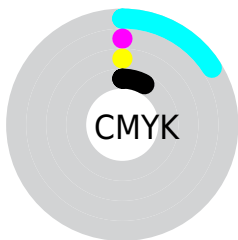
Blue (91%)



Red (77%)

Yellow (84%)

Blue (92%)

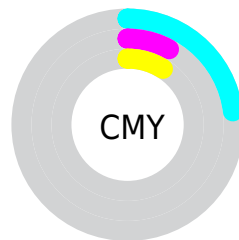


Cyan (16%)

Magenta (0%)

Yellow (0%)

Black (8%)



Cyan (23%)


Magenta (8%)


Yellow (9%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 12.981, 196.274 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, 12.981, 196.274 by changing the saturation by 10% instead.


 90, 12.981,
196.274


 90, 12.981,
196.274


 100, 12.981,
196.274


 80, 12.981,
196.274


 70, 12.981,
196.274

 60, 12.981,
196.274

 50, 12.981,
196.274

 40, 12.981,
196.274

 30, 12.981,
196.274

 20, 12.981,

196.274

■ 10, 12.981,
196.274

■ 0, 12.981, 196.274

■ 90, 12.981,
196.274

■ 90, 12.981,
196.274

■ 89, 20.319,
195.676

■ 92, 5.122, 196.941

■ 87, 26.995,
195.127

■ 93, 3.133, 17.249

■ 94, 7.654, 16.602

■ 86, 32.876,
194.616

■ 94, 7.672, 14.248

■ 86, 37.844,
194.141

■ 94, 7.704, 11.910

■ 94, 7.749, 9.595

■ 85, 41.813,
193.700

■ 94, 7.807, 7.311

■ 85, 44.745,
193.286

■ 94, 7.877, 5.065

■ 84, 46.663,
192.891

■ 94, 7.960, 2.862

■ 84, 47.671,
192.503

■ 84, 47.915,
192.358

Harmonies

Complementary

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



90, 12.981, 196.274



82, 14.356, 18.406

Rectangle

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



90, 12.981, 196.274



90, 12.981, 246.274



90, 12.981, 16.274



90, 12.981, 66.274

Sweetspot

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



90, 12.982, 196.267



99, 4.406, 197.046



89, 23.918, 142.589



53, 3.001, 196.984



0, 0.000, 0.000



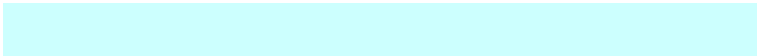
53, 0.007, 296.813

Same Dimension

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



90, 12.982, 196.267



97, 16.947, 196.034



85, 11.434, 253.949



48, 4.632, 196.705



67, 39.552, 192.422



19, 16.883, 192.992

Inverse Universe

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



82, 14.356, 18.406



86, 19.229, 18.782



87, 12.032, 69.770



46, 4.904, 17.801



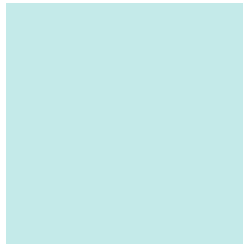
38, 79.669, 38.905



7, 28.421, 21.647

Previews

White Background



This preview shows how the CIE LCh color 90, 12.981, 196.274 looks on a white background.

Color Contrast Check

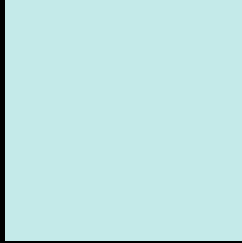
Large Text (above 18pt) WCAG AA × Fail

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, 12.981, 196.274 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

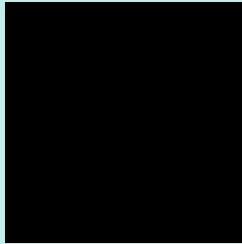
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

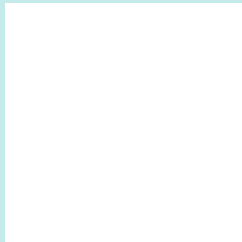
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 90, 12.981, 196.274

Background



This preview shows how black text looks on a background with the CIELCh color 90, 12.981, 196.274.

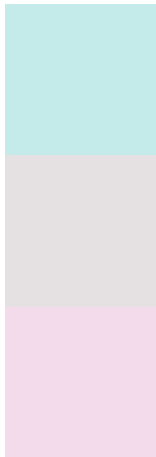


This preview shows how white text looks on a background with the CIELCh color 90, 12.981, 196.274.

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, 12.981, 196.274

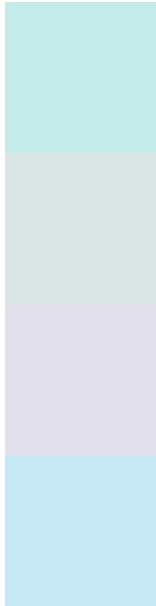
Protanopia
90, 1.784, 343.542

Deuteranopia
90, 12.339, 334.595



Tritanopia
90, 14.252, 242.973

Trichromacy



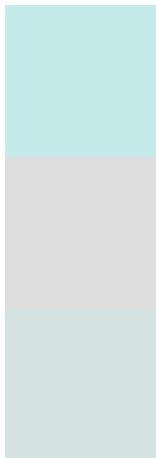
Original Color
90, 12.981, 196.274

Protanomaly
90, 3.896, 206.974

Deuteranomaly
90, 5.783, 297.626

Tritanomaly
90, 12.808, 228.047

Monochromacy



Original Color
90, 12.981, 196.274

Achromatopsia
88, 0.011, 296.813

Achromatomaly
89, 4.926, 199.186

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 90, 12.981, 196.274 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(196, 234, 233)` looks like.

```
.text, #text, p{  
    color:rgb(196, 234, 233)  
}
```

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(196, 234, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 234, 233) }
```

Border

The CSS property to change the border of an element to CIELCh 90, 12.981, 196.274 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(196, 234, 233) }
```

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

```
.border{ border-color:rgb(196, 234, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 234, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(196, 234, 233); -webkit-box-shadow:4px 4px 4px 4px rgb(196, 234, 233); box-shadow:4px 4px 4px 4px rgb(196, 234, 233) }
```

Background

The CSS property to change the background color of an element to CIELCh 90, 12.981, 196.274 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 234, 233) }
```

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

```
.background{ background-color: rgb(196,  
234, 233) }
```

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