

Converting Colors

CIELCh(87, 20.981, 106.532)

Have a look what the booklet for
CIELCh(87, 20.981, 106.532)
contains.

CIELCh(87, 20.780, 106.299)	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(87, 20.780, 106.299)

Conversions

Conversions Part 1

Format	Color
Hex	DEDCB4
RGB	222, 220, 180
RGB Percent	87%, 86%, 71%
CMY	0.1294, 0.1373, 0.2941
CMYK	0.00, 0.01, 0.19, 0.13
HSL	57°, 39%, 79%
HSV	57°, 19%, 87%
XYZ	63.9511, 70.0064, 53.3188
YIQ	216.0380, 14.0320, -12.0160

Conversions

Conversions Part 2

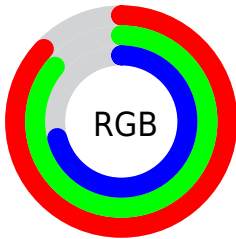
Format	Color
RYB	182, 222, 180
Decimal	14605492
CIELab	87.00, -5.83, 19.94
CIELCh	87, 20.780, 106.299
Yxy	70.0064, 0.3415, 0.3738
Android (android.graphics.Color)	4292795572 (0xFFDEDCB4)
YUV	216.0380, -17.7667, 5.2287
Hunter-Lab	83.6698, -9.9898, 20.7862

Details

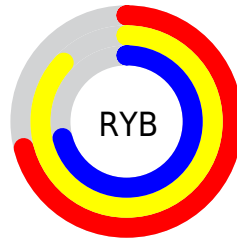
The CIELCh color **87, 20.780, 106.299** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **75, 21.616, 290.404**, and the grayscale version is **86, 0.010, 296.813**.

A 20% lighter version of the original color is **100, 9.618, 109.449**, and **67, 20.792, 105.724** is the 20% darker color. If you saturate the color by 10%, you get **86, 31.646, 105.285**, and if you desaturate by 10%, it is **88, 9.809, 107.314**.

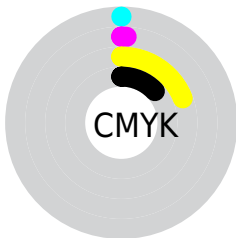
Distribution



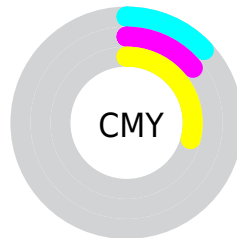
- Red (87%)
- Green (86%)
- Blue (71%)



- Red (71%)
- Yellow (87%)
- Blue (71%)



- Cyan (0%)
- Magenta (1%)
- Yellow (19%)
- Black (13%)



- Cyan (13%)
- Magenta (14%)
- Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 87, 20.780, 106.299 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 87, 20.780, 106.299 by changing the saturation by 10% instead.

■ 87, 20.780,
106.299

■ 87, 20.780,
106.299

■ 100, 20.780,
106.299

■ 77, 20.780,
106.299

■ 67, 20.780,
106.299

■ 57, 20.780,
106.299

■ 47, 20.780,
106.299

■ 37, 20.780,
106.299

■ 27, 20.780,
106.299

■ 17, 20.780,

106.299

■ 7, 20.780, 106.299

■ 0, 20.780, 106.299

■ 87, 20.780,
106.299

■ 87, 20.780,
106.299

■ 86, 31.646,
105.285

■ 88, 9.809, 107.314

■ 86, 42.289,
104.275

■ 89, 1.201, 288.395

■ 85, 52.529,
103.295

■ 89, 12.205,
289.297

■ 85, 62.084,
102.369

■ 90, 16.019,
288.795

■ 84, 70.533,

■ 90, 15.473,
287.336

101.527

90, 14.938,
285.775

84, 77.321,
100.801

91, 14.415,
284.102

83, 81.880,
100.216

91, 13.905,
282.308

83, 84.078, 99.764

91, 13.410,
280.384

83, 84.262, 99.718

Harmonies

Complementary

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



87, 20.780, 106.299



75, 21.616, 290.404

Rectangle

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



87, 20.780, 106.299



87, 20.780, 156.299



87, 20.780, 286.299



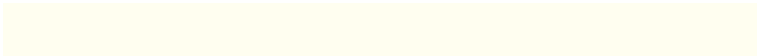
87, 20.780, 336.299

Sweetspot

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



87, 20.782, 106.304



99, 7.382, 107.599



77, 16.172, 16.795



53, 4.897, 107.534



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



87, 20.782, 106.304



98, 28.236, 105.870



86, 23.012, 126.409



47, 6.300, 107.261



67, 70.870, 99.769



18, 26.703, 101.293

Inverse Universe

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



75, 21.616, 290.404



82, 29.656, 290.996



76, 23.683, 308.240



43, 6.428, 289.230



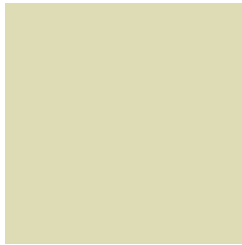
21, 99.104, 305.682



2, 30.588, 294.863

Previews

White Background



This preview shows how the CIELCh color 87, 20.780, 106.299 looks on a white background.

Color Contrast Check

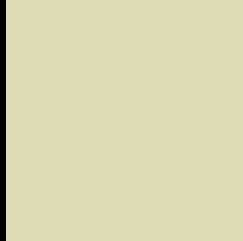
Large Text (above 18pt) WCAG AA × Fail

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 87, 20.780, 106.299 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

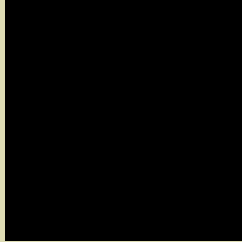
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

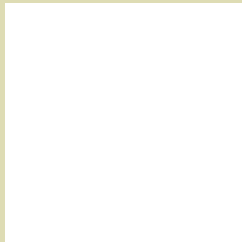
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 87, 20.780, 106.299

Background



This preview shows how black text looks on a background with the CIELCh color 87, 20.780, 106.299.



This preview shows how white text looks on a background with the CIELCh color 87, 20.780, 106.299.

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
87, 20.780, 106.299

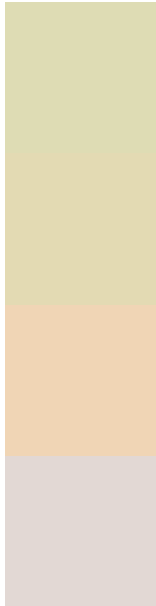
Protanopia
87, 20.410, 94.203

Deuteranopia
87, 21.810, 60.117



Tritanopia
87, 10.619, 323.210

Trichromacy



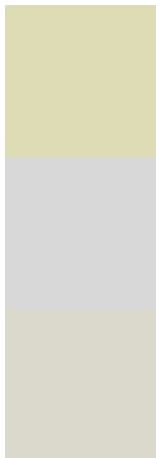
Original Color
87, 20.780, 106.299

Protanomaly
87, 20.572, 98.716

Deuteranomaly
87, 19.794, 76.685

Tritanomaly
87, 4.196, 49.288

Monochromacy



Original Color
87, 20.780, 106.299

Achromatopsia
86, 0.010, 296.813

Achromatomaly
86, 7.311, 106.656

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 87, 20.780, 106.299 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(222, 220, 180)` looks like.

```
.text, #text, p{  
    color:rgb(222, 220, 180)  
}
```

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(222, 220, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 220, 180) }
```

Border

The CSS property to change the border of an element to CIELCh 87, 20.780, 106.299 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(222, 220, 180) }
```

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

```
.border{ border-color:rgb(222, 220, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 220, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 220, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 220, 180);  
box-shadow:4px 4px 4px 4px rgb(222, 220,  
180) }
```

Background

The CSS property to change the background color of an element to CIELCh 87, 20.780, 106.299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 220, 180) }
```

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

```
.background{ background-color: rgb(222,  
220, 180) }
```

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