

# Converting Colors

CIELCh(88, 0.707, 202.616)

Have a look what the booklet for  
CIELCh(88, 0.707, 202.616) contains.

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# Color

**CIELCh(88, 0.714, 200.188)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DBDDDD
RGB	219, 221, 221
RGB Percent	86%, 87%, 87%
CMY	0.1408, 0.1329, 0.1329
CMYK	0.01, 0.00, 0.00, 0.13
HSL	180°, 3%, 86%
HSV	180°, 1%, 87%
XYZ	68.1892, 72.0653, 78.7908
YIQ	220.4020, -1.1920, -0.4240

# Conversions

## Conversions Part 2

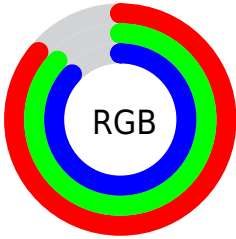
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	219, 220, 221
Decimal	14409181
CIE Lab	88.00, -0.67, -0.25
CIE LCh	88, 0.714, 200.188
Yxy	72.0653, 0.3113, 0.3290
Android (android.graphics.Color)	4292599261 (0xFFDBDDDD)
YUV	220.4020, 0.2948, -1.2296
Hunter-Lab	84.8913, -5.1791, 4.3946

# Details

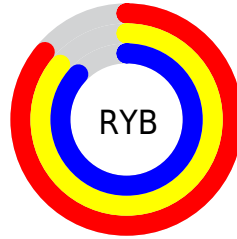
The CIELCh color `88, 0.714, 200.188` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `88, 0.722, 18.485`, and the grayscale version is `88, 0.010, 296.813`.

A 20% lighter version of the original color is `100, 0.012, 296.813`, and `68, 0.753, 199.978` is the 20% darker color. If you saturate the color by 10%, you get `86, 8.422, 198.724`, and if you desaturate by 10%, it is `90, 7.328, 19.697`.

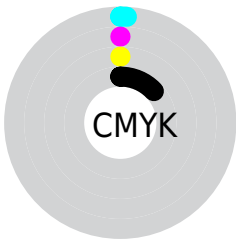
# Distribution



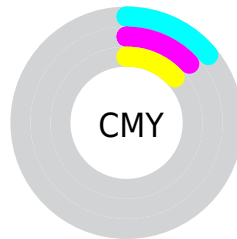
- Red (86%)
- Green (87%)
- Blue (87%)



- Red (86%)
- Yellow (86%)
- Blue (87%)



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



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

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 88, 0.714, 200.188 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 88, 0.714, 200.188 by changing the saturation by 10% instead.



■ 88, 0.714, 200.188

■ 88, 0.714, 200.188

■ 100, 0.714,  
200.188

■ 78, 0.714, 200.188

■ 68, 0.714, 200.188

■ 58, 0.714, 200.188

■ 48, 0.714, 200.188

■ 38, 0.714, 200.188

■ 28, 0.714, 200.188

■ 18, 0.714, 200.188

■ 8, 0.714, 200.188

■ 0, 0.714, 200.188

88, 0.714, 200.188

88, 0.714, 200.188

86, 8.422, 198.724

90, 7.328, 19.697

85, 15.676,  
198.183

91, 12.470, 20.068

84, 22.349,  
197.710

91, 12.469, 19.971

83, 28.315,  
197.295

91, 12.468, 19.875

82, 33.454,  
196.942

91, 12.467, 19.778

81, 37.670,  
196.653

91, 12.467, 19.682

81, 40.905,  
196.428

91, 12.466, 19.585

80, 43.154,  
196.265

91, 12.465, 19.489

91, 12.465, 19.392

■ 80, 44.476,  
196.159

# Harmonies

# Complementary

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



88, 0.714, 200.188



88, 0.722, 18.485

# Rectangle

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



88, 0.714, 200.188



88, 0.714, 250.188



88, 0.714, 20.188



88, 0.714, 70.188

# Sweetspot

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



88, 0.715, 200.032

100, 0.012, 296.813



88, 1.260, 144.168



53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

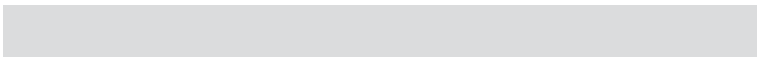
The Same Dimension uses a secret algorithm to generate beautiful new colors.



88, 0.715, 200.032



100, 0.886, 199.942



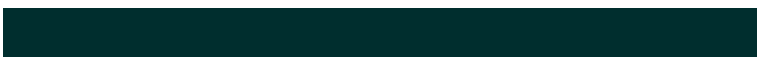
88, 0.630, 254.350



46, 0.445, 199.997



64, 37.581, 196.104



16, 15.090, 196.153





# Inverse Universe

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



88, 0.722, 18.485



99, 0.895, 18.575



88, 0.616, 72.819



46, 0.449, 18.520



36, 78.154, 39.853

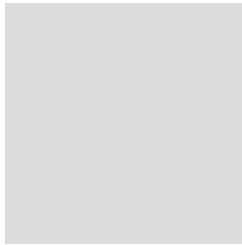


5, 23.837, 20.189



# Previews

## White Background



This preview shows how the CIELCh color 88, 0.714, 200.188 looks on a white background.

## Color Contrast Check

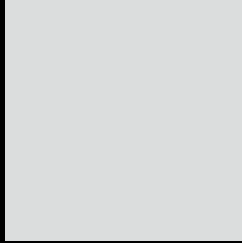
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 88, 0.714, 200.188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

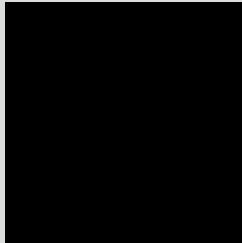
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

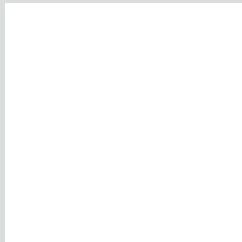
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 88, 0.714, 200.188**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 88, 0.714, 200.188.

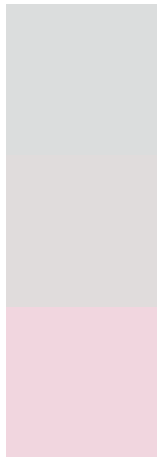


This preview shows how white text looks on a background with the CIELCh color 88, 0.714, 200.188.

# 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

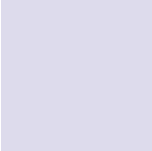
88, 0.714, 200.188

### Protanopia

88, 1.441, 19.097

### Deuteranopia

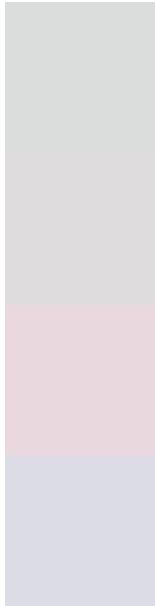
88, 10.885, 354.718



**Tritanopia**  
88, 8.926, 295.392



# Trichromacy



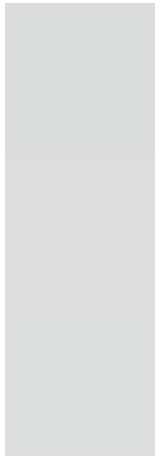
**Original Color**  
88, 0.714, 200.188

**Protanomaly**  
88, 0.720, 18.634

**Deuteranomaly**  
88, 6.367, 355.661

**Tritanomaly**  
88, 5.750, 290.664

# Monochromacy



**Original Color**  
88, 0.714, 200.188

**Achromatopsia**  
88, 0.010, 296.813

**Achromatomaly**  
88, 0.357, 201.047

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 88, 0.714, 200.188 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(219, 221, 221)` looks like.

```
.text, #text, p{  
    color:rgb(219, 221, 221)  
}
```

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(219, 221, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 221, 221) }
```

## Border

The CSS property to change the border of an element to CIELCh 88, 0.714, 200.188 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(219, 221, 221) }
```

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

```
.border{ border-color:rgb(219, 221, 221) }
```

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

Here you see how a box with a 4 pixel rgb(219, 221, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 221, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 221, 221);  
box-shadow:4px 4px 4px 4px rgb(219, 221,  
221) }
```

# Background

The CSS property to change the background color of an element to CIELCh 88, 0.714, 200.188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 221, 221) }
```

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

```
.background{ background-color: rgb(219,  
221, 221) }
```

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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