

# Converting Colors

CIELCh(89, 0.033, 264.646)

Have a look what the booklet for  
CIELCh(89, 0.033, 264.646) contains.

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# **Color**

**CIELCh(89, 0.356, 201.069)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DFE0E0
RGB	223, 224, 224
RGB Percent	87%, 88%, 88%
CMY	0.1266, 0.1227, 0.1227
CMYK	0.00, 0.00, 0.00, 0.12
HSL	180°, 2%, 88%
HSV	180°, 0%, 88%
XYZ	70.3357, 74.1641, 80.9235
YIQ	223.7010, -0.5960, -0.2120

# Conversions

## Conversions Part 2

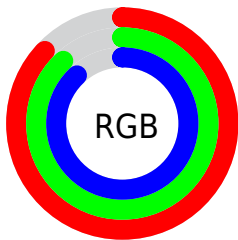
Format	Color
R <sub>Y</sub> B	223, 224, 224
Decimal	14672096
CIE Lab	89.00, -0.33, -0.13
CIE LCh	89, 0.356, 201.069
Yxy	74.1641, 0.3120, 0.3290
Android (android.graphics.Color)	4292862176 (0xFFDFE0E0)
YUV	223.7010, 0.1474, -0.6148
Hunter-Lab	86.1186, -4.9212, 4.5697

# Details

The CIELCh color  $89, 0.356, 201.069$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $89, 0.361, 17.466$ , and the grayscale version is  $89, 0.011, 296.813$ .

A 20% lighter version of the original color is  $100, 0.012, 296.813$ , and  $69, 0.375, 200.671$  is the 20% darker color. If you saturate the color by 10%, you get  $87, 8.157, 198.589$ , and if you desaturate by 10%, it is  $91, 7.776, 19.577$ .

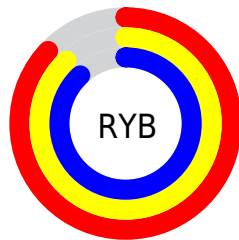
# Distribution



Red (87%)

Green (88%)

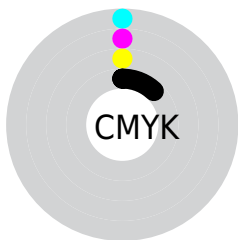
Blue (88%)



Red (87%)

Yellow (88%)

Blue (88%)

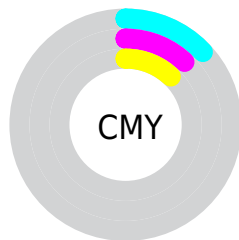


Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (12%)



Cyan (13%)

Magenta (12%)

Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 89, 0.356, 201.069 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 89, 0.356, 201.069 by changing the saturation by 10% instead.



■ 89, 0.356, 201.069

■ 89, 0.356, 201.069

100, 0.356,  
201.069

■ 79, 0.356, 201.069

■ 69, 0.356, 201.069

■ 59, 0.356, 201.069

■ 49, 0.356, 201.069

■ 39, 0.356, 201.069

■ 29, 0.356, 201.069

■ 19, 0.356, 201.069

■ 9, 0.356, 201.069

■ 0, 0.356, 201.069

89, 0.356, 201.069

89, 0.356, 201.069

87, 8.157, 198.589

91, 7.776, 19.577

86, 15.506,  
198.037

92, 11.460, 19.749

85, 22.277,  
197.554

92, 11.459, 19.536

84, 28.340,  
197.128

92, 11.458, 19.322

83, 33.572,  
196.761

92, 11.457, 19.109

82, 37.877,  
196.455

92, 11.456, 18.895

82, 41.194,  
196.212

92, 11.456, 18.681

81, 43.512,  
196.027

92, 11.455, 18.468

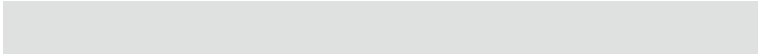
92, 11.455, 18.254

■ 81, 44.890,  
195.897

# Harmonies

# Complementary

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



89, 0.356, 201.069



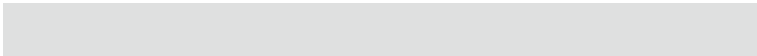
89, 0.361, 17.466

# Rectangle

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



89, 0.356, 201.069



89, 0.356, 251.069



89, 0.356, 21.069



89, 0.356, 71.069

# Sweetspot

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



89, 0.357, 200.749

100, 0.012, 296.813



89, 0.625, 144.417



53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

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



89, 0.357, 200.749



100, 0.886, 199.785



89, 0.319, 254.943



47, 0.454, 199.838



65, 38.040, 195.819



17, 15.619, 195.911





# Inverse Universe

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



89, 0.361, 17.466



99, 0.895, 18.419



89, 0.304, 72.176



47, 0.458, 18.367



36, 78.949, 39.801

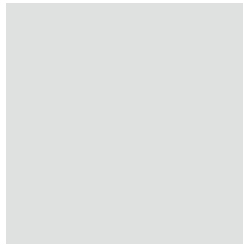


6, 25.531, 20.783



# Previews

## White Background



This preview shows how the CIELCh color 89, 0.356, 201.069 looks on a white background.

## Color Contrast Check

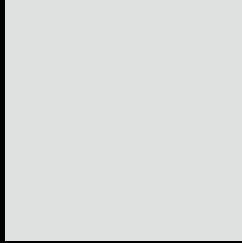
Large Text (above 18pt) WCAG AA × Fail

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 89, 0.356, 201.069 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

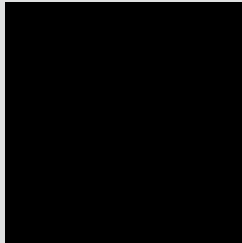
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

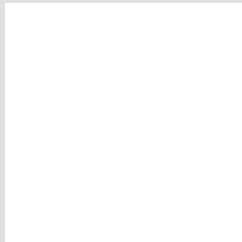
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 89, 0.356, 201.069**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 89, 0.356, 201.069.

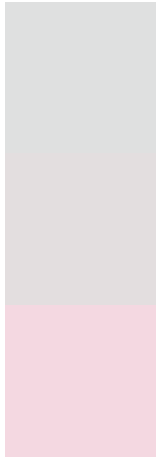


This preview shows how white text looks on a background with the CIELCh color 89, 0.356, 201.069.

# 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**  
89, 0.356, 201.069

**Protanopia**  
89, 1.879, 3.150

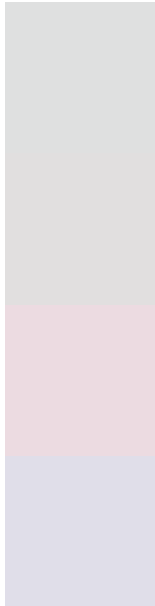
**Deuteranopia**  
89, 11.198, 355.553



**Tritanopia**  
89, 9.516, 299.357



# Trichromacy



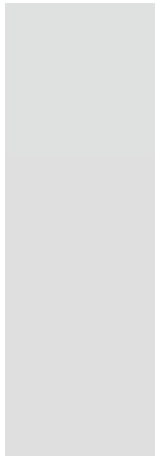
**Original Color**  
89, 0.356, 201.069

**Protanomaly**  
89, 0.718, 18.623

**Deuteranomaly**  
89, 6.904, 352.991

**Tritanomaly**  
89, 5.793, 297.629

# Monochromacy



**Original Color**  
89, 0.356, 201.069

**Achromatopsia**  
89, 0.011, 296.813

**Achromatomaly**  
89, 0.011, 296.813

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 89, 0.356, 201.069 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(223, 224, 224)` looks like.

```
.text, #text, p{  
    color:rgb(223, 224, 224)  
}
```

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(223, 224, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 224, 224) }
```

## Border

The CSS property to change the border of an element to CIELCh 89, 0.356, 201.069 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(223, 224, 224) }
```

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

```
.border{ border-color:rgb(223, 224, 224) }
```

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

Here you see how a box with a 4 pixel rgb(223, 224, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 224, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 224, 224);  
box-shadow:4px 4px 4px 4px rgb(223, 224,  
224) }
```

# Background

The CSS property to change the background color of an element to CIELCh 89, 0.356, 201.069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 224, 224) }
```

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

```
.background{ background-color: rgb(223,  
224, 224) }
```

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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