

# Converting Colors

CIELCh(91, 4.307, 236.458)

Have a look what the booklet for  
CIELCh(91, 4.307, 236.458) contains.

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# Color

**CIELCh(91, 4.310, 236.372)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DDE7EC
RGB	221, 231, 236
RGB Percent	87%, 91%, 93%
CMY	0.1338, 0.0946, 0.0750
CMYK	0.06, 0.02, 0.00, 0.07
HSL	200°, 28%, 90%
HSV	200°, 6%, 93%
XYZ	73.4439, 78.4833, 90.5397
YIQ	228.5800, -7.5650, -0.5650

# Conversions

## Conversions Part 2

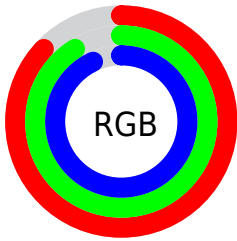
Format	Color
R <sub>Y</sub> B	221, 227, 236
Decimal	14542828
CIE Lab	91.00, -2.39, -3.59
CIE LCh	91, 4.310, 236.372
Yxy	78.4833, 0.3029, 0.3237
Android (android.graphics.Color)	4292732908 (0xFFDDE7EC)
YUV	228.5800, 3.6581, -6.6477
Hunter-Lab	88.5908, -7.0532, 1.4193

# Details

The CIELCh color  $91, 4.310, 236.372$  is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be  $90, 4.440, 55.039$ , and the grayscale version is  $91, 0.011, 296.813$ .

A 20% lighter version of the original color is  $100, 0.012, 296.813$ , and  $71, 4.237, 239.487$  is the 20% darker color. If you saturate the color by 10%, you get  $87, 10.871, 237.302$ , and if you desaturate by 10%, it is  $95, 2.498, 55.161$ .

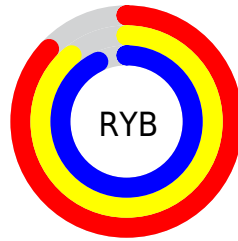
# Distribution



Red (87%)

Green (91%)

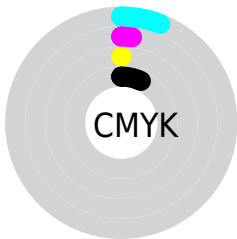
Blue (93%)



Red (87%)

Yellow (89%)

Blue (93%)

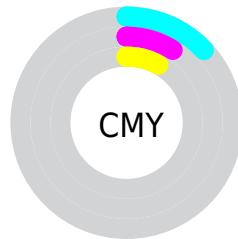


Cyan (6%)

Magenta (2%)

Yellow (0%)

Black (7%)



Cyan (13%)

Magenta (9%)

Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 91, 4.310, 236.372 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 91, 4.310, 236.372 by changing the saturation by 10% instead.



■ 91, 4.310, 236.372

■ 91, 4.310, 236.372

■ 100, 4.310,  
236.372

■ 81, 4.310, 236.372

■ 71, 4.310, 236.372

■ 61, 4.310, 236.372

■ 51, 4.310, 236.372

■ 41, 4.310, 236.372

■ 31, 4.310, 236.372

■ 21, 4.310, 236.372

■ 11, 4.310, 236.372

■ 1, 4.310, 236.372

91, 4.310, 236.372

91, 4.310, 236.372

87, 10.871,  
237.302

95, 2.498, 55.161

84, 17.117,  
238.581

97, 6.216, 80.655

80, 22.977,  
240.196

99, 9.406, 108.262

100, 9.680,  
109.444

77, 28.380,  
242.220

74, 33.270,  
244.739

71, 37.623,  
247.843

68, 41.466,  
251.600

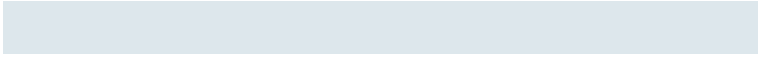
65, 44.898,  
256.031

■ 63, 48.098,  
261.051

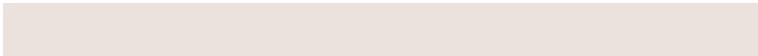
# Harmonies

# Complementary

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



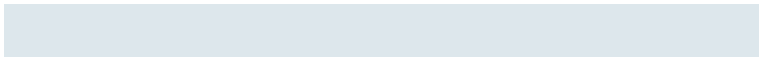
91, 4.310, 236.372



90, 4.440, 55.039

# Rectangle

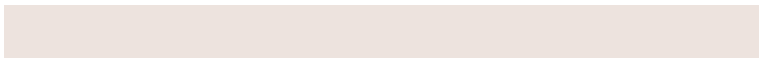
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



91, 4.310, 236.372



91, 4.310, 286.372



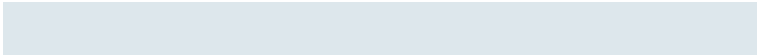
91, 4.310, 56.372



91, 4.310, 106.372

# Sweetspot

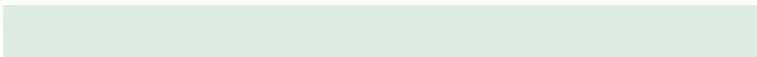
The Sweet Spot groups the original color and five complimentary colors.



91, 4.310, 236.342



99, 1.458, 236.231



92, 7.559, 154.571



53, 0.829, 236.243



0, 0.000, 0.000



53, 0.007, 296.813



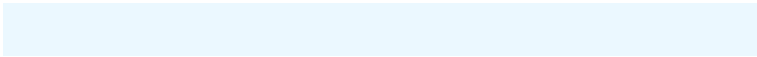


# Same Dimension

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



91, 4.310, 236.342



97, 5.757, 236.473



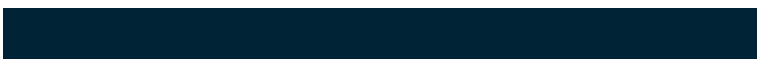
89, 6.440, 282.148



47, 3.811, 236.598



48, 40.014, 261.948



13, 15.826, 253.071



# Inverse Universe

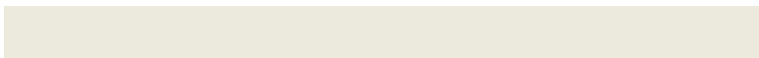
The Inverse Universe completely reimagines the original color for something new.



89, 7.507, 336.050



95, 10.075, 336.181



92, 6.374, 100.650



46, 6.694, 336.292



40, 69.972, 347.359

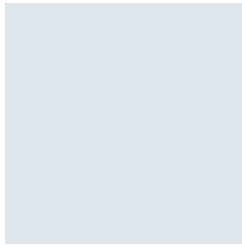


8, 30.885, 343.721



# Previews

## White Background



This preview shows how the CIELCh color 91, 4.310, 236.372 looks on a white background.

## Color Contrast Check

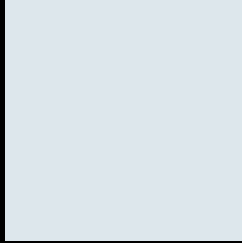
Large Text (above 18pt) WCAG AA × Fail

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 91, 4.310, 236.372 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

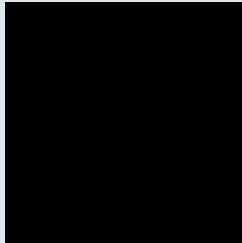
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

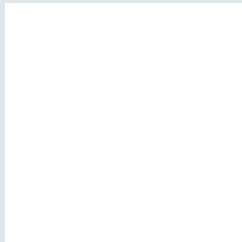
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 91, 4.310, 236.372

## Background



This preview shows how black text looks on a background with the CIELCh color 91, 4.310, 236.372.

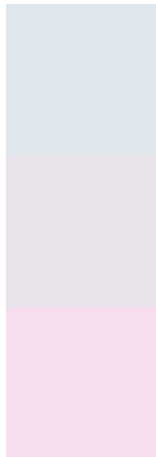


This preview shows how white text looks on a background with the CIELCh color 91, 4.310, 236.372.

# 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

91, 4.310, 236.372

### Protanopia

91, 3.442, 314.719

### Deuteranopia

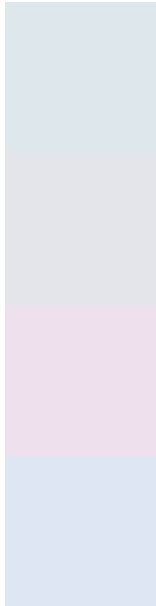
91, 12.208, 337.526





**Tritanopia**  
91, 9.521, 278.472

# Trichromacy



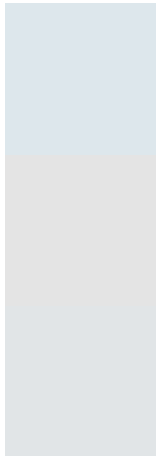
**Original Color**  
91, 4.310, 236.372

**Protanomaly**  
91, 3.132, 284.002

**Deuteranomaly**  
91, 7.788, 326.855

**Tritanomaly**  
91, 7.234, 268.322

# Monochromacy



**Original Color**  
91, 4.310, 236.372

**Achromatopsia**  
91, 0.011, 296.813

**Achromatomaly**  
91, 1.745, 236.220

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 91, 4.310, 236.372 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(221, 231, 236)` looks like.

```
.text, #text, p{  
    color:rgb(221, 231, 236)  
}
```

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(221, 231, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 231, 236) }
```

## Border

The CSS property to change the border of an element to CIELCh 91, 4.310, 236.372 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(221, 231, 236) }
```

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

```
.border{ border-color:rgb(221, 231, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 231, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 231, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 231, 236);  
box-shadow:4px 4px 4px 4px rgb(221, 231,  
236) }
```

# Background

The CSS property to change the background color of an element to CIELCh 91, 4.310, 236.372 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 231, 236) }
```

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

```
.background{ background-color: rgb(221,  
231, 236) }
```

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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