

# Converting Colors

CIELCh(99, 5.677, 166.686)

Have a look what the booklet for  
CIELCh(99, 5.677, 166.686) contains.

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# Color

**CIELCh(99, 5.493, 165.433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2FFF9
RGB	242, 255, 249
RGB Percent	95%, 100%, 98%
CMY	0.0501, 0.0000, 0.0226
CMYK	0.05, 0.00, 0.02, 0.00
HSL	153°, 100%, 97%
HSV	153°, 5%, 100%
XYZ	89.6621, 97.4360, 103.8890
YIQ	250.4290, -5.8220, -4.6220

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 250, 255
Decimal	15925241
CIE <sub>Lab</sub>	99.00, -5.32, 1.38
CIE <sub>LCh</sub>	99, 5.493, 165.433
Yxy	97.4360, 0.3081, 0.3348
Android (android.graphics.Color)	4294115321 (0xFF2FF9)
YUV	250.4290, -0.7045, -7.3922
Hunter-Lab	98.7097, -10.6031, 6.6958

# Details

The CIELCh color 99, 5.493, 165.433 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 97, 5.416, 346.667, and the grayscale version is 98, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 79, 5.158, 167.957 is the 20% darker color. If you saturate the color by 10%, you get 97, 16.057, 165.011, and if you desaturate by 10%, it is 100, 0.012, 296.813.

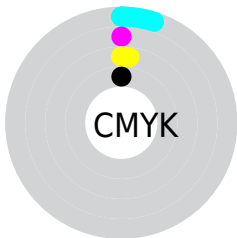
# Distribution



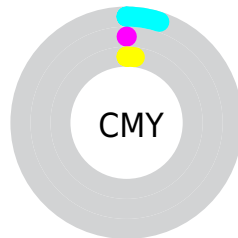
- Red (95%)
- Green (100%)
- Blue (98%)



- Red (95%)
- Yellow (98%)
- Blue (100%)



- Cyan (5%)
- Magenta (0%)
- Yellow (2%)
- Black (0%)



- Cyan (5%)
- Magenta (0%)
- Yellow (2%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 99, 5.493, 165.433 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 99, 5.493, 165.433 by changing the saturation by 10% instead.



 99, 5.493, 165.433

 99, 5.493, 165.433

 100, 5.493,  
165.433

 89, 5.493, 165.433

 79, 5.493, 165.433

 69, 5.493, 165.433

 59, 5.493, 165.433

 49, 5.493, 165.433

 39, 5.493, 165.433

 29, 5.493, 165.433

 19, 5.493, 165.433

 9, 5.493, 165.433

99, 5.493, 165.433

99, 5.493, 165.433

97, 16.057,  
165.011

100, 0.012,  
296.813

95, 26.614,  
163.983

94, 36.872,  
162.846


92, 46.654,  
161.572

91, 55.774,  
160.134

90, 64.062,  
158.507

90, 71.389,  
156.669

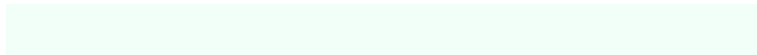
89, 77.698,  
154.613

 89, 83.030,  
152.355

# Harmonies

# Complementary

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



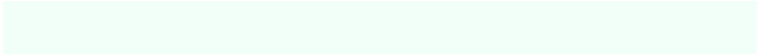
99, 5.493, 165.433



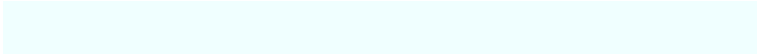
97, 5.416, 346.667

# Rectangle

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



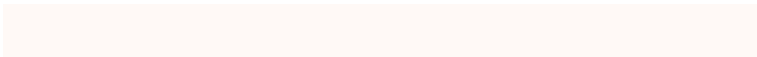
99, 5.493, 165.433



99, 5.493, 215.433



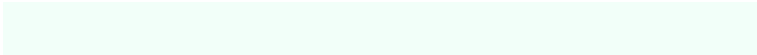
99, 5.493, 345.433



99, 5.493, 35.433

# Sweetspot

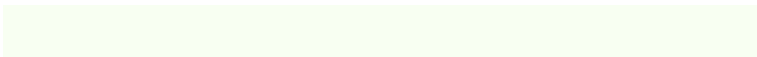
The Sweet Spot groups the original color and five complimentary colors.



99, 5.361, 165.993



100, 2.135, 166.396



99, 6.933, 130.032



53, 1.214, 166.417



0, 0.000, 0.000



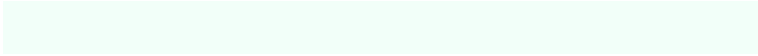
53, 0.007, 296.813





# Same Dimension

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



99, 5.361, 165.993



99, 6.423, 165.890



99, 4.260, 202.211



53, 4.261, 165.824



68, 68.220, 151.636



23, 29.508, 154.870



# Inverse Universe

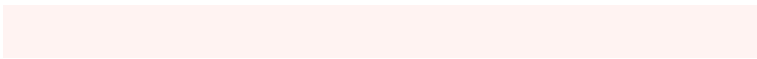
The Inverse Universe completely reimagines the original color for something new.



97, 5.416, 346.667



96, 6.495, 346.770



97, 4.399, 22.379



51, 4.312, 346.837



41, 67.998, 6.755

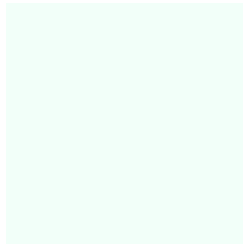


10, 31.499, 0.429



# Previews

## White Background



This preview shows how the CIELCh color 99, 5.493, 165.433 looks on a white background.

## Color Contrast Check

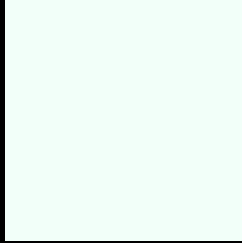
Large Text (above 18pt) WCAG AA × Fail

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 99, 5.493, 165.433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

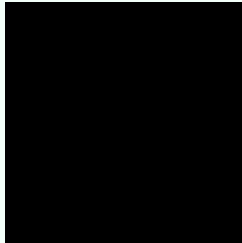
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 99, 5.493, 165.433**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 99, 5.493, 165.433.

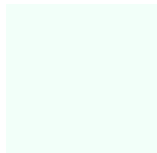


This preview shows how white text looks on a background with the CIELCh color 99, 5.493, 165.433.

# 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

99, 5.493, 165.433



### Protanopia

99, 1.723, 55.170

### Deuteranopia

99, 1.502, 359.268



**Tritanopia**  
99, 1.571, 277.558

# Trichromacy



**Original Color**

99, 5.493, 165.433

**Protanomaly**

99, 1.677, 134.742

**Deuteranomaly**

99, 0.862, 164.145

**Tritanomaly**

99, 1.738, 199.673

# Monochromacy



**Original Color**

99, 5.493, 165.433

**Achromatopsia**

99, 0.012, 296.813

**Achromatomaly**

99, 1.733, 163.799

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 5.493, 165.433 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(242, 255, 249)` looks like.

```
.text, #text, p{  
    color:rgb(242, 255, 249)  
}
```

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(242, 255, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 255, 249) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 5.493, 165.433 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(242, 255, 249) }
```

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

```
.border{ border-color:rgb(242, 255, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 255, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 255, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 255, 249);  
box-shadow:4px 4px 4px 4px rgb(242, 255,  
249) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 5.493, 165.433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 255, 249) }
```

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

```
.background{ background-color: rgb(242,  
255, 249) }
```

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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