

# Converting Colors

CIELCh(45, 9.246, 180.712)

Have a look what the booklet for  
CIELCh(45, 9.246, 180.712) contains.

<b>CIELCh(45, 9.252, 179.488)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(45, 9.252, 179.488)**

# Conversions

## Conversions Part 1

Format	Color
Hex	596F6A
RGB	89, 111, 106
RGB Percent	35%, 44%, 42%
CMY	0.6509, 0.5646, 0.5842
CMYK	0.20, 0.00, 0.05, 0.56
HSL	166°, 11%, 39%
HSV	166°, 20%, 44%
XYZ	12.4132, 14.5417, 15.7961
YIQ	103.8520, -11.5070, -6.2190

# Conversions

## Conversions Part 2

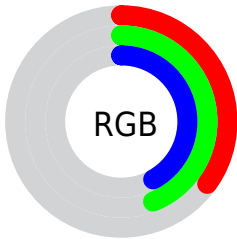
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	89, 101, 111
Decimal	5861226
CIE Lab	45.00, -9.25, 0.08
CIE LCh	45, 9.252, 179.488
Yxy	14.5417, 0.2904, 0.3401
Android (android.graphics.Color)	4284051306 (0xFF596F6A)
YUV	103.8520, 1.0590, -13.0252
Hunter-Lab	38.1336, -8.6287, 2.1337

# Details

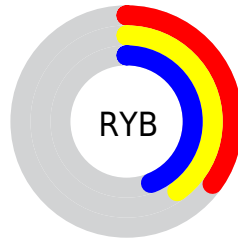
The CIELCh color **45, 9.252, 179.488** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **40, 9.916, 3.070**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 9.593, 178.222**, and **25, 8.967, 180.701** is the 20% darker color. If you saturate the color by 10%, you get **44, 13.678, 178.518**, and if you desaturate by 10%, it is **46, 4.642, 180.418**.

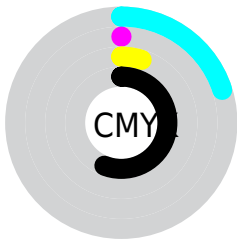
# Distribution



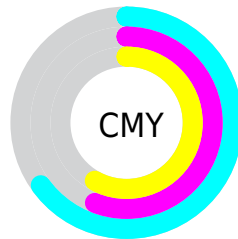
- Red (35%)
- Green (44%)
- Blue (42%)



- Red (35%)
- Yellow (40%)
- Blue (44%)



- Cyan (20%)
- Magenta (0%)
- Yellow (5%)
- Black (56%)















- Cyan (65%)
- Magenta (56%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 9.252, 179.488 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 45, 9.252, 179.488 by changing the saturation by 10% instead.



 45, 9.252, 179.488	 45, 9.252, 179.488
 100, 9.252, 179.488	 35, 9.252, 179.488
 65, 9.252, 179.488	 25, 9.252, 179.488
 75, 9.252, 179.488	 15, 9.252, 179.488
 85, 9.252, 179.488	 5, 9.252, 179.488
 95, 9.252, 179.488	 0, 9.252, 179.488

 45, 9.252, 179.488	 45, 9.252, 179.488
 44, 13.678, 178.518	 46, 4.642, 180.418
 44, 17.849,	 47, 0.091, 357.604

177.493

48, 4.891, 1.953

43, 21.694,  
176.390

49, 9.715, 2.770

42, 25.143,  
175.191

50, 14.526, 3.535

42, 28.139,  
173.874

52, 19.298, 4.269

42, 30.648,  
172.420

54, 28.650, 5.659

41, 32.660,  
170.811

56, 33.207, 6.319

41, 34.400,  
169.172

41, 34.432,  
169.143

# Harmonies

# Complementary

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



45, 9.252, 179.488



40, 9.916, 3.070

# Rectangle

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



45, 9.252, 179.488



45, 9.252, 229.488



45, 9.252, 359.488



45, 9.252, 49.488

# Sweetspot

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



45, 9.253, 179.484



60, 3.551, 180.777



45, 14.913, 136.920



31, 2.373, 180.729



81, 0.010, 296.813



31, 0.005, 296.813



# Same Dimension

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



45, 9.253, 179.484



58, 13.866, 179.023



43, 7.078, 228.788



23, 2.685, 180.495



44, 36.446, 168.968



87, 63.250, 167.778





# Inverse Universe

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



40, 9.916, 3.070



50, 15.131, 3.638



42, 7.931, 46.525



22, 2.770, 1.919



24, 51.363, 24.986



52, 90.033, 28.438



# Previews

## White Background



This preview shows how the CIELCh color 45, 9.252, 179.488 looks on a white 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 × Fail

# Black Background



This preview shows how the CIE LCh color 45, 9.252, 179.488 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

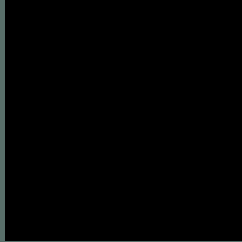
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

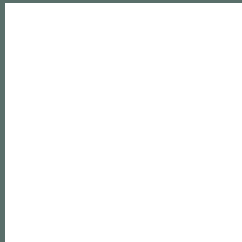
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 45, 9.252, 179.488

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 9.252, 179.488.



This preview shows how white text looks on a background with the CIELCh color 45, 9.252, 179.488.

# 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

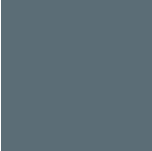
45, 9.252, 179.488

### Protanopia

45, 2.166, 74.682

### Deuteranopia

45, 6.164, 351.307



**Tritanopia**  
45, 8.541, 237.974



# Trichromacy



**Original Color**  
45, 9.252, 179.488

**Protanomaly**  
45, 3.444, 155.361

**Deuteranomaly**  
45, 0.602, 290.330

**Tritanomaly**  
45, 7.970, 216.119

# Monochromacy



**Original Color**  
45, 9.252, 179.488

**Achromatopsia**  
44, 0.006, 296.813

**Achromatomaly**  
45, 3.477, 178.967

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 9.252, 179.488 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(89, 111, 106)` looks like.

```
.text, #text, p{  
    color:rgb(89, 111, 106)  
}
```

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(89, 111, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 111, 106) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 9.252, 179.488 is called "border". The border property can be set on classes, ids or directly on the HTML element.

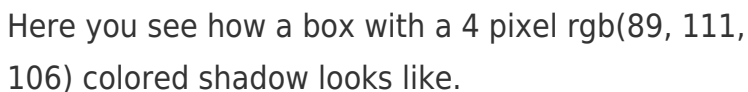
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(89, 111, 106) }
```

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

```
.border{ border-color:rgb(89, 111, 106) }
```

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



Here you see how a box with a 4 pixel `rgb(89, 111, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(89, 111, 106); -webkit-box-shadow:4px 4px 4px 4px rgb(89, 111, 106); box-shadow:4px 4px 4px 4px rgb(89, 111, 106) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 9.252, 179.488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 111, 106) }
```

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

```
.background{ background-color: rgb(89, 111,  
106) }
```

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