

# Converting Colors

CIELCh(45, 16.961, 220.753)

Have a look what the booklet for  
CIELCh(45, 16.961, 220.753)  
contains.

<b>CIELCh(45, 16.979, 220.777)</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, 16.979, 220.777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42717C
RGB	66, 113, 124
RGB Percent	26%, 44%, 49%
CMY	0.7395, 0.5552, 0.5121
CMYK	0.47, 0.09, 0.00, 0.51
HSL	191°, 30%, 37%
HSV	191°, 47%, 49%
XYZ	11.8914, 14.5417, 21.3885
YIQ	100.2010, -31.5430, -6.5430

# Conversions

## Conversions Part 2

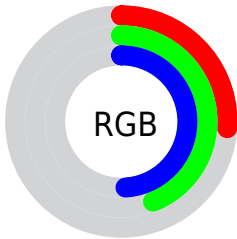
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	66, 92, 124
Decimal	4354428
CIE <sub>Lab</sub>	45.00, -12.86, -11.09
CIE <sub>LCh</sub>	45, 16.979, 220.777
Y <sub>xy</sub>	14.5417, 0.2487, 0.3041
Android (android.graphics.Color)	4282544508 (0xFF42717C)
YUV	100.2010, 11.7329, -29.9943
Hunter-Lab	38.1336, -11.0714, -6.5612

# Details

The CIELCh color **45, 16.979, 220.777** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **38, 23.678, 38.681**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 16.951, 221.551**, and **25, 16.912, 220.343** is the 20% darker color. If you saturate the color by 10%, you get **44, 19.609, 221.962**, and if you desaturate by 10%, it is **46, 13.921, 219.886**.

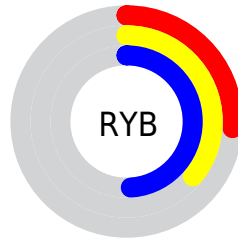
# Distribution



Red (26%)

Green (44%)

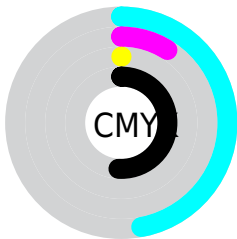
Blue (49%)



Red (26%)

Yellow (36%)

Blue (49%)

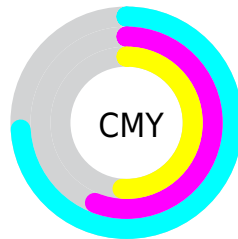


Cyan (47%)

Magenta (9%)

Yellow (0%)

Black (51%)



Cyan (74%)

Magenta (56%)


Yellow (51%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 16.979, 220.777 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, 16.979, 220.777 by changing the saturation by 10% instead.





 45, 16.979,  
220.777


 45, 16.979,  
220.777


 100, 16.979,  
220.777


 35, 16.979,  
220.777

 65, 16.979,  
220.777


 25, 16.979,  
220.777

 75, 16.979,  
220.777

 15, 16.979,  
220.777

 85, 16.979,  
220.777

 5, 16.979, 220.777

 95, 16.979,  
220.777

 0, 16.979, 220.777

 45, 16.979,

 45, 16.979,

220.777

■ 44, 19.609,  
221.962

■ 42, 21.768,  
223.512

■ 41, 23.431,  
225.496

■ 40, 24.607,  
227.985

■ 39, 25.397,  
230.951

■ 39, 25.661,  
231.951

220.777

■ 46, 13.921,  
219.886

■ 48, 10.492,  
219.240

■ 49, 6.751, 218.797

■ 51, 2.757, 218.569

■ 53, 1.439, 37.970

■ 55, 5.789, 38.073

■ 56, 10.255, 38.076

■ 58, 14.805, 38.117

■ 60, 19.411, 38.195

# Harmonies

# Complementary

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



45, 16.979, 220.777



38, 23.678, 38.681

# Rectangle

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



45, 16.979, 220.777



45, 16.979, 270.777



45, 16.979, 40.777



45, 16.979, 90.777

# Sweetspot

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



45, 16.979, 220.775



63, 7.055, 218.723



47, 36.104, 146.155



33, 4.885, 218.781



84, 0.010, 296.813



35, 0.005, 296.813



# Same Dimension

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



45, 16.979, 220.775



56, 23.817, 222.057



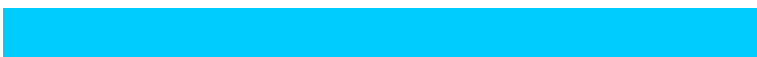
36, 25.022, 280.175



25, 2.303, 218.596



39, 25.740, 231.968



76, 43.474, 234.125





# Inverse Universe

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



37, 35.946, 333.080



44, 52.022, 333.807



46, 24.934, 86.609



24, 4.322, 330.675



28, 59.065, 337.171

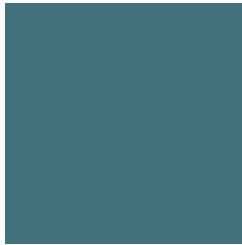


57, 98.695, 337.757



# Previews

## White Background



This preview shows how the CIELCh color 45, 16.979, 220.777 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 CIELCh color 45, 16.979, 220.777 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

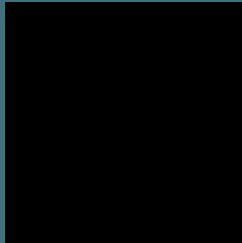
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 45, 16.979, 220.777**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 16.979, 220.777.

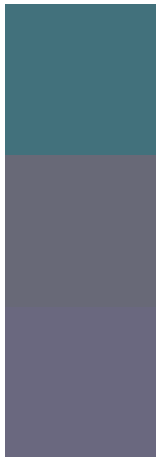


This preview shows how white text looks on a background with the CIELCh color 45, 16.979, 220.777.

# 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, 16.979, 220.777

**Protanopia**  
45, 8.371, 288.696

**Deuteranopia**  
45, 13.789, 295.230



**Tritanopia**  
45, 17.013, 216.295



# Trichromacy



**Original Color**  
45, 16.979, 220.777

**Protanomaly**  
45, 10.089, 249.550

**Deuteranomaly**  
45, 12.444, 265.499

**Tritanomaly**  
45, 17.113, 218.343

# Monochromacy



**Original Color**  
45, 16.979, 220.777

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
44, 7.311, 217.935

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 16.979, 220.777 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(66, 113, 124)` looks like.

```
.text, #text, p{  
    color:rgb(66, 113, 124)  
}
```

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(66, 113, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 113, 124) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 16.979, 220.777 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(66, 113, 124) }
```

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

```
.border{ border-color:rgb(66, 113, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 113, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 113, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 113, 124);  
box-shadow:4px 4px 4px 4px rgb(66, 113,  
124) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 16.979, 220.777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 113, 124) }
```

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

```
.background{ background-color: rgb(66, 113,  
124) }
```

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