

Converting Colors

CIELCh(45, 37.449, 159.556)

Have a look what the booklet for
CIELCh(45, 37.449, 159.556)
contains.

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Color

CIELCh(45, 37.404, 159.646)

Conversions

Conversions Part 1

Format	Color
Hex	217954
RGB	33, 121, 84
RGB Percent	13%, 47%, 33%
CMY	0.8723, 0.5268, 0.6718
CMYK	0.73, 0.00, 0.31, 0.53
HSL	155°, 58%, 30%
HSV	155°, 73%, 47%
XYZ	8.9959, 14.5417, 10.6545
YIQ	90.4700, -40.5710, -30.1630

Conversions

Conversions Part 2

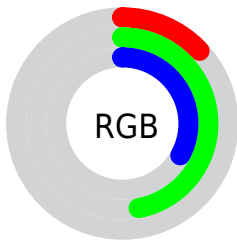
Format	Color
R_{YB}	33, 89, 121
Decimal	2193748
CIE _{Lab}	45.00, -35.07, 13.01
CIE _{LCh}	45, 37.404, 159.646
Yxy	14.5417, 0.2631, 0.4253
Android (android.graphics.Color)	4280383828 (0xFF217954)
YUV	90.4700, -3.1897, -50.4012
Hunter-Lab	38.1336, -24.6246, 10.1279

Details

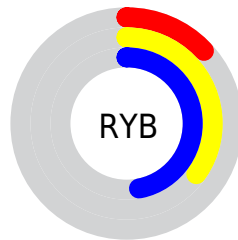
The CIELCh color **45, 37.404, 159.646** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **28, 41.121, 358.519**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 37.296, 159.955**, and **26, 31.926, 154.467** is the 20% darker color. If you saturate the color by 10%, you get **45, 40.998, 157.840**, and if you desaturate by 10%, it is **45, 33.301, 161.260**.

Distribution



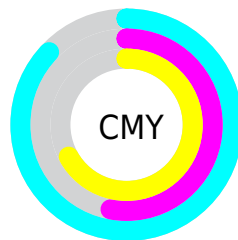
- Red (13%)
- Green (47%)
- Blue (33%)



- Red (13%)
- Yellow (35%)
- Blue (47%)



- Cyan (73%)
- Magenta (0%)
- Yellow (31%)
- Black (53%)





- Cyan (87%)
- Magenta (53%)
- Yellow (67%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 37.404, 159.646 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, 37.404, 159.646 by changing the saturation by 10% instead.


 45, 37.404,
159.646


 45, 37.404,
159.646


 100, 37.404,
159.646


 35, 37.404,
159.646

 65, 37.404,
159.646


 25, 37.404,
159.646

 75, 37.404,
159.646

 15, 37.404,
159.646

 85, 37.404,
159.646

 5, 37.404, 159.646

 95, 37.404,
159.646

 0, 37.404, 159.646

 45, 37.404,

 45, 37.404,

159.646

■ 45, 40.998,
157.840

■ 44, 44.078,
155.844

■ 44, 46.105,
154.493

159.646

■ 45, 33.301,
161.260

■ 46, 28.734,
162.700

■ 47, 23.776,
163.986

■ 47, 18.510,
165.140

■ 48, 13.025,
166.185

■ 49, 7.403, 167.146

■ 50, 1.716, 168.145

■ 52, 3.975, 348.692

■ 53, 9.622, 349.479

Harmonies

Complementary

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



45, 37.404, 159.646



28, 41.121, 358.519

Rectangle

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



45, 37.404, 159.646



45, 37.404, 209.646



45, 37.404, 339.646



45, 37.404, 29.646

Sweetspot

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



45, 37.404, 159.646



62, 15.535, 166.231



46, 52.385, 128.530



32, 10.365, 166.021



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 37.404, 159.646



58, 52.647, 156.418



44, 24.118, 205.353



25, 3.243, 167.513



46, 47.357, 154.403



88, 81.731, 153.082

Inverse Universe

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



28, 41.121, 358.519



35, 56.534, 3.970



28, 42.497, 33.469



24, 3.296, 348.935



26, 49.786, 7.913



54, 84.050, 10.845

Previews

White Background



This preview shows how the CIELCh color 45, 37.404, 159.646 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, 37.404, 159.646 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, 37.404, 159.646

Background



This preview shows how black text looks on a background with the CIELCh color 45, 37.404, 159.646.



This preview shows how white text looks on a background with the CIELCh color 45, 37.404, 159.646.

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, 37.404, 159.646

Protanopia

45, 17.537, 95.756

Deuteranopia

45, 12.274, 62.517



Tritanopia
45, 20.837, 214.170

Trichromacy



Original Color
45, 37.404, 159.646

Protanomaly
44, 22.233, 138.610

Deuteranomaly
44, 16.156, 139.784

Tritanomaly
45, 24.429, 186.777

Monochromacy



Original Color
45, 37.404, 159.646

Achromatopsia
38, 0.005, 296.813

Achromatomaly
40, 15.220, 166.151

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 37.404, 159.646 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(33, 121, 84)` looks like.

```
.text, #text, p{  
    color:rgb(33, 121, 84)  
}
```

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(33, 121, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 121, 84) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 37.404, 159.646 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(33, 121, 84) }
```

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

```
.border{ border-color:rgb(33, 121, 84) }
```

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

Here you see how a box with a 4 pixel rgb(33, 121, 84) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 121, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 121, 84);  
box-shadow:4px 4px 4px 4px rgb(33, 121,  
84) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 37.404, 159.646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 121, 84) }
```

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

```
.background{ background-color: rgb(33, 121,  
84) }
```

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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