

Converting Colors

CIELCh(45, 33.610, 137.458)

Have a look what the booklet for
CIELCh(45, 33.610, 137.458)
contains.

CIELCh(45, 33.966, 137.060)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(45, 33.966, 137.060)

Conversions

Conversions Part 1

Format	Color
Hex	4C7543
RGB	76, 117, 67
RGB Percent	30%, 46%, 26%
CMY	0.7036, 0.5429, 0.7388
CMYK	0.35, 0.00, 0.43, 0.54
HSL	109°, 27%, 36%
HSV	109°, 43%, 46%
XYZ	10.2593, 14.5417, 7.5136
YIQ	99.0410, -8.3860, -24.2420

Conversions

Conversions Part 2

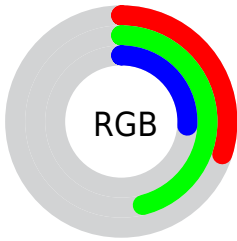
Format	Color
R_{YB}	67, 117, 108
Decimal	5010755
CIE _{Lab}	45.00, -24.87, 23.14
CIE _{LCh}	45, 33.966, 137.060
Yxy	14.5417, 0.3175, 0.4500
Android (android.graphics.Color)	4283200835 (0xFF4C7543)
YUV	99.0410, -15.7962, -20.2070
Hunter-Lab	38.1336, -18.7108, 15.0114

Details

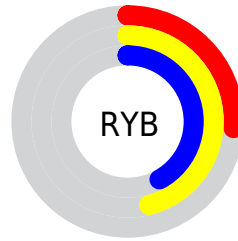
The CIELCh color **45, 33.966, 137.060** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **35, 34.478, 321.215**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 33.554, 136.962**, and **25, 33.815, 136.798** is the 20% darker color. If you saturate the color by 10%, you get **44, 41.450, 136.382**, and if you desaturate by 10%, it is **46, 26.173, 137.709**.

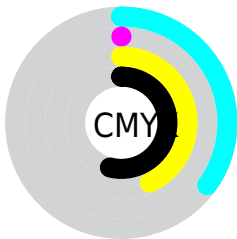
Distribution



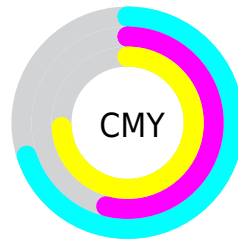
- Red (30%)
- Green (46%)
- Blue (26%)



- Red (26%)
- Yellow (46%)
- Blue (42%)



- Cyan (35%)
- Magenta (0%)
- Yellow (43%)
- Black (54%)





- Cyan (70%)
- Magenta (54%)
- Yellow (74%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 33.966, 137.060 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, 33.966, 137.060 by changing the saturation by 10% instead.


 45, 33.966,
137.060


 45, 33.966,
137.060


 100, 33.966,
137.060


 35, 33.966,
137.060

 65, 33.966,
137.060


 25, 33.966,
137.060

 75, 33.966,
137.060

 15, 33.966,
137.060

 85, 33.966,
137.060

 5, 33.966, 137.060

 95, 33.966,
137.060

 0, 33.966, 137.060

 45, 33.966,

 45, 33.966,

137.060

137.060

■ 44, 41.450,
136.382

■ 46, 26.173,
137.709

■ 44, 48.423,
135.717

■ 47, 18.221,
138.304

■ 43, 54.631,
135.139

■ 48, 10.221,
138.841

■ 43, 59.768,
134.752

■ 49, 2.260, 139.357

■ 43, 63.553,
134.658

■ 50, 5.604, 319.673

■ 51, 13.328,
320.039

■ 42, 65.837,
134.503

■ 52, 20.883,
320.345

■ 54, 28.252,
320.606

■ 55, 35.426,
320.829

Harmonies

Complementary

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



45, 33.966, 137.060



35, 34.478, 321.215

Rectangle

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



45, 33.966, 137.060



45, 33.966, 187.060



45, 33.966, 317.060



45, 33.966, 7.060

Sweetspot

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



45, 33.967, 137.061



61, 12.732, 138.817



45, 24.300, 96.641



31, 8.985, 138.723



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 33.967, 137.061



57, 49.323, 136.423



45, 28.555, 151.340



24, 4.485, 139.032



45, 68.223, 134.554



86, 116.404, 135.038

Inverse Universe

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



35, 34.478, 321.215



42, 50.129, 321.545



35, 28.929, 338.112



23, 4.507, 319.780



24, 68.155, 321.647



52, 115.701, 321.304

Previews

White Background



This preview shows how the CIELCh color 45, 33.966, 137.060 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, 33.966, 137.060 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, 33.966, 137.060

Background



This preview shows how black text looks on a background with the CIELCh color 45, 33.966, 137.060.



This preview shows how white text looks on a background with the CIELCh color 45, 33.966, 137.060.

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, 33.966, 137.060

Protanopia

45, 25.650, 95.980

Deuteranopia

45, 22.316, 74.391



Tritanopia
45, 10.544, 229.345

Trichromacy



Original Color
45, 33.966, 137.060

Protanomaly
45, 27.062, 115.116

Deuteranomaly
44, 22.317, 105.773

Tritanomaly
45, 14.010, 167.001

Monochromacy



Original Color
45, 33.966, 137.060

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 12.569, 139.001

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 33.966, 137.060 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(76, 117, 67)` looks like.

```
.text, #text, p{  
    color:rgb(76, 117, 67)  
}
```

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(76, 117, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 117, 67) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 33.966, 137.060 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(76, 117, 67) }
```

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

```
.border{ border-color:rgb(76, 117, 67) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 117, 67)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 117, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 117, 67);  
box-shadow:4px 4px 4px 4px rgb(76, 117,  
67) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 33.966, 137.060 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 117, 67) }
```

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

```
.background{ background-color: rgb(76, 117,  
67) }
```

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