

Converting Colors

CIELCh(45, 15.967, 123.797)

Have a look what the booklet for
CIELCh(45, 15.967, 123.797)
contains.

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Color

CIELCh(45, 15.967, 123.797)

Conversions

Conversions Part 1

Format	Color
Hex	646E54
RGB	100, 110, 84
RGB Percent	39%, 43%, 33%
CMY	0.6073, 0.5681, 0.6701
CMYK	0.09, 0.00, 0.24, 0.57
HSL	83°, 13%, 38%
HSV	83°, 24%, 43%
XYZ	12.4676, 14.5417, 10.5650
YIQ	104.0460, 2.3860, -10.2060

Conversions

Conversions Part 2

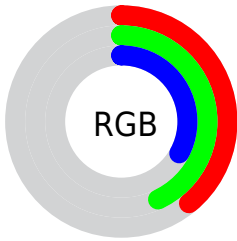
Format	Color
R_{YB}	84, 110, 94
Decimal	6581844
CIE _{Lab}	45.00, -8.88, 13.27
CIE _{LCh}	45, 15.967, 123.797
Yxy	14.5417, 0.3318, 0.3870
Android (android.graphics.Color)	4284771924 (0xFF646E54)
YUV	104.0460, -9.8827, -3.5483
Hunter-Lab	38.1336, -8.3741, 10.2671

Details

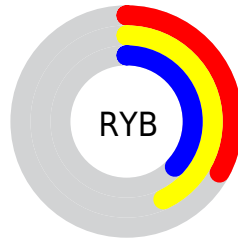
The CIELCh color $45, 15.967, 123.797$ is a dark color, and the websafe version is hex 666633 . A complement of this color would be $38, 16.593, 306.184$, and the grayscale version is $44, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 16.075, 124.393$, and $25, 15.536, 123.533$ is the 20% darker color. If you saturate the color by 10%, you get $44, 22.644, 123.301$, and if you desaturate by 10%, it is $46, 9.217, 124.298$.

Distribution



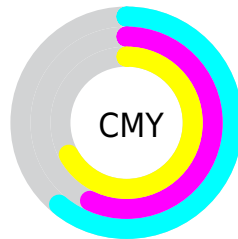
- Red (39%)
- Green (43%)
- Blue (33%)



- Red (33%)
- Yellow (43%)
- Blue (37%)



- Cyan (9%)
- Magenta (0%)
- Yellow (24%)
- Black (57%)





- Cyan (61%)
- Magenta (57%)
- Yellow (67%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 15.967, 123.797 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, 15.967, 123.797 by changing the saturation by 10% instead.


 45, 15.967,
123.797


 45, 15.967,
123.797


 100, 15.967,
123.797


 35, 15.967,
123.797

 65, 15.967,
123.797


 25, 15.967,
123.797

 75, 15.967,
123.797

 15, 15.967,
123.797


 85, 15.967,
123.797

 5, 15.967, 123.797

 95, 15.967,
123.797

 0, 15.967, 123.797

 45, 15.967,

 45, 15.967,

123.797

123.797

■ 44, 22.644,
123.301

■ 46, 9.217, 124.298

■ 44, 29.172,
122.824

■ 46, 2.440, 124.794

■ 47, 4.324, 305.218

■ 43, 35.446,
122.405

■ 48, 11.051,
305.653

■ 43, 41.315,
122.095

■ 48, 17.720,
306.053

■ 43, 46.570,
121.972

■ 49, 24.318,
306.420

■ 42, 50.951,
122.130

■ 50, 30.835,
306.757

■ 42, 54.259,
122.648

■ 51, 37.263,
307.065

■ 42, 56.250,
122.959

■ 52, 43.597,

Harmonies

Complementary

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



45, 15.967, 123.797



38, 16.593, 306.184

Rectangle

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



45, 15.967, 123.797



45, 15.967, 173.797



45, 15.967, 303.797



45, 15.967, 353.797

Sweetspot

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



45, 15.968, 123.799



59, 5.860, 124.614



41, 9.387, 59.712



30, 3.782, 124.597



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



45, 15.968, 123.799



57, 23.392, 123.543



44, 18.323, 140.004



23, 3.865, 124.524



45, 59.807, 123.106



89, 102.856, 124.001

Inverse Universe

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



38, 16.593, 306.184



46, 24.530, 306.497



39, 18.431, 322.301



21, 3.925, 305.372



15, 72.808, 309.998



36, 125.190, 309.410

Previews

White Background



This preview shows how the CIELCh color 45, 15.967, 123.797 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, 15.967, 123.797 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

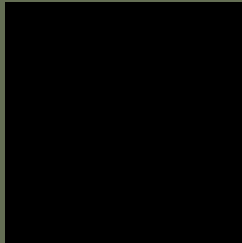
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

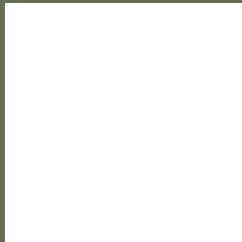
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 15.967, 123.797

Background



This preview shows how black text looks on a background with the CIELCh color 45, 15.967, 123.797.

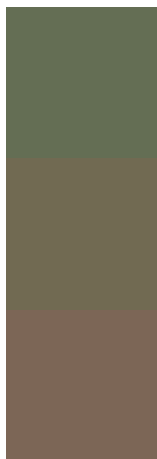


This preview shows how white text looks on a background with the CIELCh color 45, 15.967, 123.797.

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, 15.967, 123.797

Protanopia

45, 14.564, 95.715

Deuteranopia

45, 13.819, 63.273



Tritanopia
45, 4.787, 286.098

Trichromacy



Original Color
45, 15.967, 123.797

Protanomaly
45, 14.766, 108.067

Deuteranomaly
45, 12.700, 87.957

Tritanomaly
45, 3.637, 144.241

Monochromacy



Original Color
45, 15.967, 123.797

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 5.517, 122.626

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 15.967, 123.797 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(100, 110, 84)` looks like.

```
.text, #text, p{  
    color:rgb(100, 110, 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(100, 110, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 110, 84) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 15.967, 123.797 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(100, 110, 84) }
```

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

```
.border{ border-color:rgb(100, 110, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 110, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 110, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 110, 84);  
box-shadow:4px 4px 4px 4px rgb(100, 110,  
84) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 15.967, 123.797 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 110, 84) }
```

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

```
.background{ background-color: rgb(100,  
110, 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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