

Converting Colors

CIELCh(45, 13.500, 356.446)

Have a look what the booklet for
CIELCh(45, 13.500, 356.446)
contains.

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Color

CIELCh(45, 13.241, 357.476)

Conversions

Conversions Part 1

Format	Color
Hex	80636C
RGB	128, 99, 108
RGB Percent	50%, 39%, 42%
CMY	0.4988, 0.6125, 0.5772
CMYK	0.00, 0.23, 0.16, 0.50
HSL	341°, 13%, 44%
HSV	341°, 23%, 50%
XYZ	16.0143, 14.5417, 16.0983
YIQ	108.6970, 14.3950, 8.9470

Conversions

Conversions Part 2

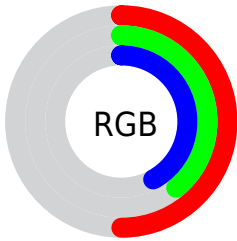
Format	Color
R_{YB}	128, 99, 108
Decimal	8414060
CIE Lab	45.00, 13.23, -0.58
CIE LCh	45, 13.241, 357.476
Yxy	14.5417, 0.3433, 0.3117
Android (android.graphics.Color)	4286604140 (0xFF80636C)
YUV	108.6970, -0.3436, 16.9287
Hunter-Lab	38.1336, 8.2275, 1.6640

Details

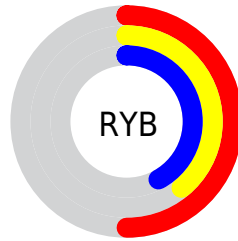
The CIELCh color $45, 13.241, 357.476$ is a dark color, and the websafe version is hex 996666 . A complement of this color would be $51, 12.456, 173.179$, and the grayscale version is $46, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 13.052, 358.303$, and $25, 13.306, 356.093$ is the 20% darker color. If you saturate the color by 10%, you get $41, 19.345, 358.746$, and if you desaturate by 10%, it is $49, 7.274, 356.379$.

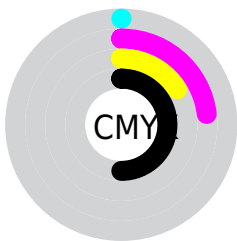
Distribution



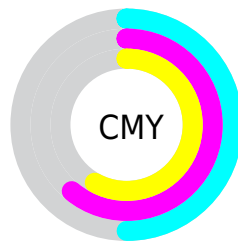
- Red (50%)
- Green (39%)
- Blue (42%)



- Red (50%)
- Yellow (39%)
- Blue (42%)



- Cyan (0%)
- Magenta (23%)
- Yellow (16%)
- Black (50%)





- Cyan (50%)
- Magenta (61%)
- Yellow (58%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 13.241, 357.476 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, 13.241, 357.476 by changing the saturation by 10% instead.


 45, 13.241,
357.476


 45, 13.241,
357.476


 100, 13.241,
357.476


 35, 13.241,
357.476

 65, 13.241,
357.476


 25, 13.241,
357.476

 75, 13.241,
357.476

 15, 13.241,
357.476


 85, 13.241,
357.476

 5, 13.241, 357.476

 95, 13.241,
357.476

 0, 13.241, 357.476

 45, 13.241,

 45, 13.241,

357.476

357.476

41, 19.345,
358.746

49, 7.274, 356.379

38, 25.482, 0.243

52, 1.510, 355.258

35, 31.485, 2.052

56, 4.021, 174.735

32, 37.128, 4.283

60, 9.313, 173.942

30, 42.152, 7.074

64, 14.370,
173.256

28, 46.329, 10.581

68, 19.205,
172.638

27, 49.570, 14.927

72, 23.833,
172.075

26, 51.829, 18.229

76, 28.272,
171.557

80, 32.539,
171.080

Harmonies

Complementary

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



45, 13.241, 357.476



51, 12.456, 173.179

Rectangle

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



45, 13.241, 357.476



45, 13.241, 47.476



45, 13.241, 177.476



45, 13.241, 227.476

Sweetspot

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



45, 13.239, 357.480



65, 4.914, 355.807



45, 19.024, 316.126



34, 3.221, 355.854



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



45, 13.239, 357.480



56, 19.639, 358.081



46, 10.752, 37.430



25, 3.204, 356.008



26, 51.736, 18.214



0, 0.000, 0.000

Inverse Universe

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



45, 13.239, 357.480



56, 19.639, 358.081



50, 9.286, 218.242



25, 3.204, 356.008



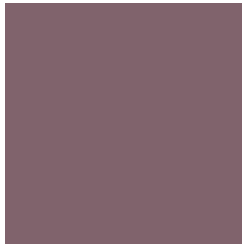
26, 51.736, 18.214



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 13.241, 357.476 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, 13.241, 357.476 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

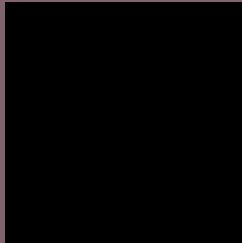
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 13.241, 357.476

Background



This preview shows how black text looks on a background with the CIELCh color 45, 13.241, 357.476.



This preview shows how white text looks on a background with the CIELCh color 45, 13.241, 357.476.

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, 13.241, 357.476

Protanopia

45, 3.612, 297.078

Deuteranopia

45, 6.298, 358.007



Tritanopia
45, 13.051, 359.905

Trichromacy



Original Color
45, 13.241, 357.476

Protanomaly
45, 6.481, 340.145

Deuteranomaly
45, 9.083, 357.494

Tritanomaly
45, 13.051, 359.905

Monochromacy



Original Color
45, 13.241, 357.476

Achromatopsia
46, 0.006, 296.813

Achromatomaly
46, 5.139, 352.481

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 13.241, 357.476 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(128, 99, 108)` looks like.

```
.text, #text, p{  
    color:rgb(128, 99, 108)  
}
```

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(128, 99, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 99, 108) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 13.241, 357.476 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(128, 99, 108) }
```

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

```
.border{ border-color:rgb(128, 99, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 99, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 99, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 99, 108);  
box-shadow:4px 4px 4px 4px rgb(128, 99,  
108) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 13.241, 357.476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 99, 108) }
```

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

```
.background{ background-color: rgb(128, 99,  
108) }
```

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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