

Converting Colors

CIELCh(48, 13.354, 136.552)

Have a look what the booklet for
CIELCh(48, 13.354, 136.552)
contains.

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Color

CIELCh(48, 13.333, 136.558)

Conversions

Conversions Part 1

Format	Color
Hex	677662
RGB	103, 118, 98
RGB Percent	40%, 46%, 38%
CMY	0.5952, 0.5363, 0.6148
CMYK	0.13, 0.00, 0.17, 0.54
HSL	105°, 9%, 42%
HSV	105°, 17%, 46%
XYZ	14.3404, 16.7945, 14.0965
YIQ	111.2350, -2.5200, -9.4000

Conversions

Conversions Part 2

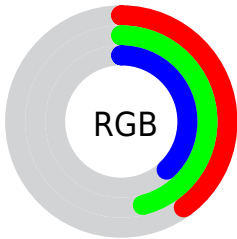
Format	Color
R_{YB}	98, 118, 113
Decimal	6780514
CIE _{Lab}	48.00, -9.68, 9.17
CIE _{LCh}	48, 13.333, 136.558
Yxy	16.7945, 0.3170, 0.3713
Android (android.graphics.Color)	4284970594 (0xFF677662)
YUV	111.2350, -6.5249, -7.2221
Hunter-Lab	40.9810, -9.2547, 8.2923

Details

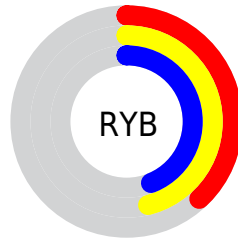
The CIELCh color $48, 13.333, 136.558$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $44, 13.469, 317.979$, and the grayscale version is $47, 0.006, 296.813$.

A 20% lighter version of the original color is $68, 13.127, 137.120$, and $28, 13.264, 137.021$ is the 20% darker color. If you saturate the color by 10%, you get $47, 21.241, 136.045$, and if you desaturate by 10%, it is $49, 5.431, 137.033$.

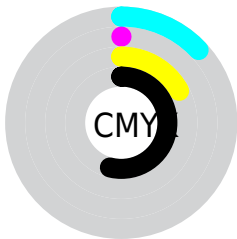
Distribution



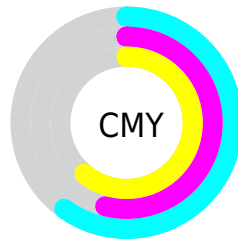
- Red (40%)
- Green (46%)
- Blue (38%)



- Red (38%)
- Yellow (46%)
- Blue (44%)



- Cyan (13%)
- Magenta (0%)
- Yellow (17%)
- Black (54%)





- Cyan (60%)
- Magenta (54%)
- Yellow (61%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 13.333, 136.558 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 48, 13.333, 136.558 by changing the saturation by 10% instead.


 48, 13.333,
136.558


 48, 13.333,
136.558


 100, 13.333,
136.558


 38, 13.333,
136.558

 68, 13.333,
136.558


 28, 13.333,
136.558

 78, 13.333,
136.558

 18, 13.333,
136.558


 88, 13.333,
136.558

 8, 13.333, 136.558

 98, 13.333,
136.558

 0, 13.333, 136.558

 48, 13.333,

 48, 13.333,

136.558

■ 47, 21.241,
136.045

■ 46, 29.065,
135.489

■ 46, 36.688,
134.906

■ 45, 43.951,
134.332

■ 44, 50.642,
133.825

■ 44, 56.486,
133.475

■ 44, 61.175,
133.392

■ 43, 64.662,
133.546

136.558

■ 49, 5.431, 137.033

■ 50, 2.407, 317.359

■ 51, 10.135,
317.757

■ 52, 17.720,
318.072

■ 54, 25.144,
318.342

■ 55, 32.394,
318.574

■ 56, 39.463,
318.773

■ 58, 46.351,
318.944

■ 43, 65.685,
133.526

■ 59, 53.059,
319.089

Harmonies

Complementary

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



48, 13.333, 136.558



44, 13.469, 317.979

Rectangle

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



48, 13.333, 136.558



48, 13.333, 186.558



48, 13.333, 316.558



48, 13.333, 6.558

Sweetspot

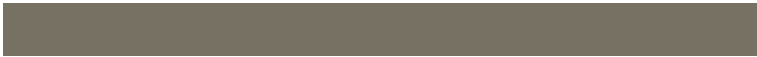
The Sweet Spot groups the original color and five complimentary colors.



48, 13.334, 136.559



63, 4.837, 137.118



48, 9.062, 95.298



32, 3.282, 137.092



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



48, 13.334, 136.559



61, 19.478, 136.381



48, 12.088, 151.215



24, 4.391, 136.935



45, 67.372, 133.570



87, 115.116, 134.187

Inverse Universe

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



44, 13.469, 317.979



54, 19.712, 318.130



44, 12.149, 333.386



23, 4.420, 317.642



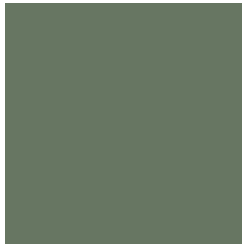
23, 68.849, 319.282



49, 116.985, 318.835

Previews

White Background



This preview shows how the CIELCh color 48, 13.333, 136.558 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 48, 13.333, 136.558 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 48, 13.333, 136.558

Background



This preview shows how black text looks on a background with the CIELCh color 48, 13.333, 136.558.



This preview shows how white text looks on a background with the CIELCh color 48, 13.333, 136.558.

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

48, 13.333, 136.558

Protanopia

48, 10.426, 91.949

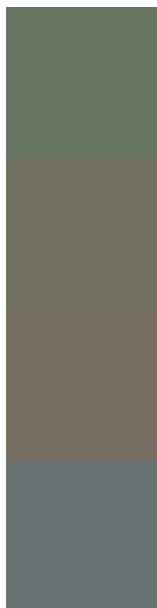
Deuteranopia

48, 10.501, 53.974



Tritanopia
48, 6.072, 260.368

Trichromacy



Original Color
48, 13.333, 136.558

Protanomaly
48, 10.553, 111.058

Deuteranomaly
48, 8.747, 89.010

Tritanomaly
48, 4.027, 190.607

Monochromacy



Original Color
48, 13.333, 136.558

Achromatopsia
47, 0.006, 296.813

Achromatomaly
47, 5.342, 137.029

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 13.333, 136.558 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(103, 118, 98)` looks like.

```
.text, #text, p{  
    color:rgb(103, 118, 98)  
}
```

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(103, 118, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 118, 98) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 13.333, 136.558 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(103, 118, 98) }
```

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

```
.border{ border-color:rgb(103, 118, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 118, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 118, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 118, 98);  
box-shadow:4px 4px 4px 4px rgb(103, 118,  
98) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 13.333, 136.558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 118, 98) }
```

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

```
.background{ background-color: rgb(103,  
118, 98) }
```

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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