

Converting Colors

CIELCh(45, 10.233, 118.401)

Have a look what the booklet for
CIELCh(45, 10.233, 118.401)
contains.

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Color

CIELCh(45, 10.233, 118.401)

Conversions

Conversions Part 1

Format	Color
Hex	686C5B
RGB	104, 108, 91
RGB Percent	41%, 42%, 36%
CMY	0.5906, 0.5749, 0.6416
CMYK	0.04, 0.00, 0.16, 0.57
HSL	74°, 9%, 39%
HSV	74°, 16%, 43%
XYZ	13.0680, 14.5417, 12.1061
YIQ	104.8660, 3.0730, -6.1350

Conversions

Conversions Part 2

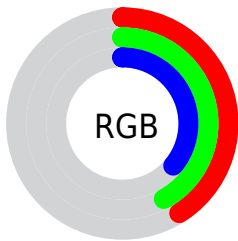
Format	Color
R_{YB}	91, 108, 95
Decimal	6843483
CIE _{Lab}	45.00, -4.87, 9.00
CIE _{LCh}	45, 10.233, 118.401
Yxy	14.5417, 0.3290, 0.3661
Android (android.graphics.Color)	4285033563 (0xFF686C5B)
YUV	104.8660, -6.8359, -0.7595
Hunter-Lab	38.1336, -5.5636, 7.8710

Details

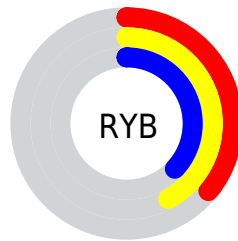
The CIELCh color $45, 10.233, 118.401$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $40, 10.551, 300.377$, and the grayscale version is $45, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 10.093, 118.128$, and $25, 10.611, 118.483$ is the 20% darker color. If you saturate the color by 10%, you get $45, 16.704, 117.789$, and if you desaturate by 10%, it is $45, 3.714, 119.016$.

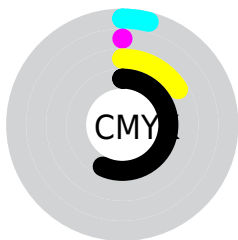
Distribution



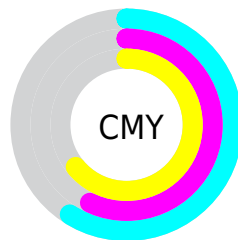
- Red (41%)
- Green (42%)
- Blue (36%)



- Red (36%)
- Yellow (42%)
- Blue (37%)



- Cyan (4%)
- Magenta (0%)
- Yellow (16%)
- Black (57%)





- Cyan (59%)
- Magenta (57%)
- Yellow (64%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 10.233, 118.401 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, 10.233, 118.401 by changing the saturation by 10% instead.


 45, 10.233,
118.401


 45, 10.233,
118.401


 100, 10.233,
118.401


 35, 10.233,
118.401

 65, 10.233,
118.401


 25, 10.233,
118.401

 75, 10.233,
118.401

 15, 10.233,
118.401


 85, 10.233,
118.401

 5, 10.233, 118.401

 95, 10.233,
118.401

 0, 10.233, 118.401

 45, 10.233,

 45, 10.233,

118.401

■ 45, 16.704,
117.789

■ 44, 23.072,
117.181

■ 44, 29.261,
116.604

■ 43, 35.161,
116.095

■ 43, 40.610,
115.702

■ 43, 45.387,
115.494

■ 43, 49.227,
115.553

■ 42, 52.075,
115.892

118.401

■ 45, 3.714, 119.016

■ 46, 2.821, 299.595

■ 47, 9.344, 300.163

■ 47, 15.837,
300.699

■ 48, 22.286,
301.202

■ 49, 28.680,
301.674

■ 49, 35.012,
302.113

■ 50, 41.275,
302.522

■ 51, 47.464,

■ 42, 53.299,
116.016

302.901

Harmonies

Complementary

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



45, 10.233, 118.401



40, 10.551, 300.377

Rectangle

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



45, 10.233, 118.401



45, 10.233, 168.401



45, 10.233, 298.401



45, 10.233, 348.401

Sweetspot

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



45, 10.234, 118.405



58, 4.029, 119.050



42, 6.143, 42.873



30, 2.770, 119.018



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, 10.234, 118.405



57, 15.292, 118.170



44, 11.452, 136.119



22, 3.630, 118.818



46, 56.400, 116.121



90, 97.393, 116.826

Inverse Universe

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



40, 10.551, 300.377



49, 15.885, 300.661



41, 11.568, 317.400



20, 3.697, 299.907



13, 73.584, 307.902



33, 127.426, 307.453

Previews

White Background



This preview shows how the CIELCh color 45, 10.233, 118.401 looks on a white background.

Color Contrast Check

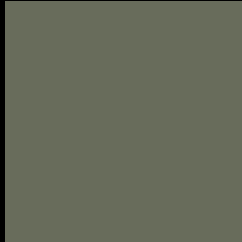
Large Text (above 18pt) WCAG AA ✓ Pass

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, 10.233, 118.401 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

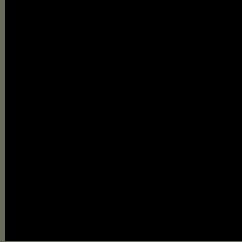
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

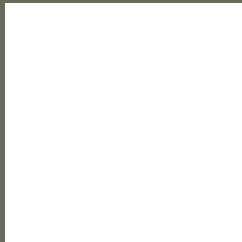
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 10.233, 118.401

Background



This preview shows how black text looks on a background with the CIELCh color 45, 10.233, 118.401.

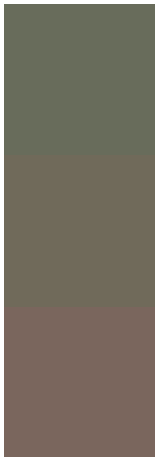


This preview shows how white text looks on a background with the CIELCh color 45, 10.233, 118.401.

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, 10.233, 118.401

Protanopia

45, 9.852, 93.398

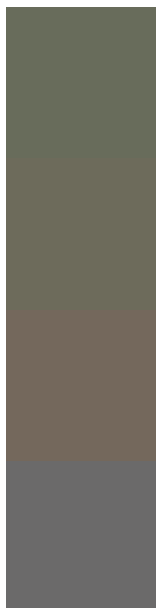
Deuteranopia

45, 10.320, 51.309



Tritanopia
45, 5.529, 303.456

Trichromacy



Original Color
45, 10.233, 118.401

Protanomaly
45, 9.525, 103.603

Deuteranomaly
45, 8.872, 72.976

Tritanomaly
45, 0.412, 18.611

Monochromacy



Original Color
45, 10.233, 118.401

Achromatopsia
44, 0.006, 296.813

Achromatomaly
45, 3.599, 116.326

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 10.233, 118.401 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(104, 108, 91)` looks like.

```
.text, #text, p{  
    color:rgb(104, 108, 91)  
}
```

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(104, 108, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 108, 91) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 10.233, 118.401 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(104, 108, 91) }
```

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

```
.border{ border-color:rgb(104, 108, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 108, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 108, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 108, 91);  
box-shadow:4px 4px 4px 4px rgb(104, 108,  
91) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 10.233, 118.401 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 108, 91) }
```

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

```
.background{ background-color: rgb(104,  
108, 91) }
```

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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