

Converting Colors

CIELCh(45, 22.668, 117.468)

Have a look what the booklet for
CIELCh(45, 22.668, 117.468)
contains.

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Color

CIELCh(45, 23.237, 118.085)

Conversions

Conversions Part 1

Format	Color
Hex	656F48
RGB	101, 111, 72
RGB Percent	40%, 44%, 28%
CMY	0.6048, 0.5655, 0.7184
CMYK	0.09, 0.00, 0.35, 0.57
HSL	75°, 21%, 36%
HSV	75°, 35%, 43%
XYZ	12.1671, 14.5417, 8.2620
YIQ	103.5640, 6.5590, -14.2490

Conversions

Conversions Part 2

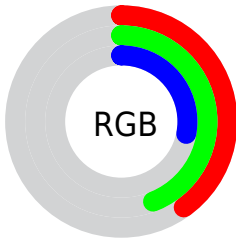
Format	Color
R_{YB}	72, 111, 82
Decimal	6647624
CIE Lab	45.00, -10.94, 20.50
CIE LCh	45, 23.237, 118.085
Yxy	14.5417, 0.3479, 0.4158
Android (android.graphics.Color)	4284837704 (0xFF656F48)
YUV	103.5640, -15.5611, -2.2486
Hunter-Lab	38.1336, -9.7808, 13.8479

Details

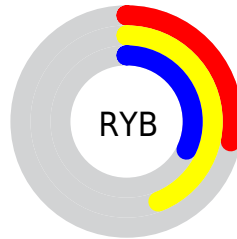
The CIELCh color $45, 23.237, 118.085$ is a dark color, and the websafe version is hex 666633 . A complement of this color would be $33, 24.963, 302.681$, and the grayscale version is $44, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 23.475, 118.804$, and $25, 23.279, 118.060$ is the 20% darker color. If you saturate the color by 10%, you get $45, 29.574, 117.528$, and if you desaturate by 10%, it is $45, 16.727, 118.677$.

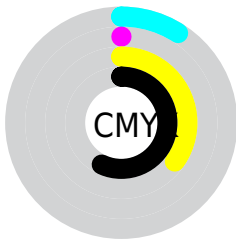
Distribution



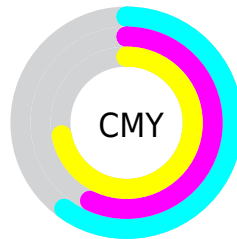
- Red (40%)
- Green (44%)
- Blue (28%)



- Red (28%)
- Yellow (44%)
- Blue (32%)



- Cyan (9%)
- Magenta (0%)
- Yellow (35%)
- Black (57%)





- Cyan (60%)
- Magenta (57%)
- Yellow (72%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 23.237, 118.085 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, 23.237, 118.085 by changing the saturation by 10% instead.


 45, 23.237,
118.085


 45, 23.237,
118.085


 100, 23.237,
118.085


 35, 23.237,
118.085

 65, 23.237,
118.085


 25, 23.237,
118.085

 75, 23.237,
118.085

 15, 23.237,
118.085

 85, 23.237,
118.085

 5, 23.237, 118.085

 95, 23.237,
118.085

 0, 23.237, 118.085

 45, 23.237,

 45, 23.237,

118.085

118.085

■ 45, 29.574,
117.528

■ 45, 16.727,
118.677

■ 44, 35.621,
117.035

■ 46, 10.116,
119.275

■ 44, 41.218,
116.659

■ 46, 3.457, 119.866

■ 44, 46.140,
116.470

■ 47, 3.212, 300.421

■ 48, 9.866, 300.968

■ 43, 50.119,
116.554

■ 48, 16.486,
301.481

■ 43, 53.047,
116.944

■ 49, 23.057,
301.962

■ 43, 54.422,
117.113

■ 50, 29.568,
302.412

■ 50, 36.013,

Harmonies

Complementary

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



45, 23.237, 118.085



33, 24.963, 302.681

Rectangle

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



45, 23.237, 118.085



45, 23.237, 168.085



45, 23.237, 298.085



45, 23.237, 348.085

Sweetspot

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



45, 23.238, 118.087



59, 9.023, 119.507



37, 15.012, 44.330



30, 6.020, 119.450



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, 23.238, 118.087



57, 33.921, 117.642



44, 26.280, 135.601



23, 3.785, 119.641



46, 57.594, 117.222



90, 98.749, 117.949

Inverse Universe

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



33, 24.963, 302.681



39, 37.155, 303.398



35, 26.803, 318.731



21, 3.854, 300.698



13, 74.501, 308.123



34, 128.048, 307.662

Previews

White Background



This preview shows how the CIELCh color 45, 23.237, 118.085 looks on a white background.

Color Contrast Check

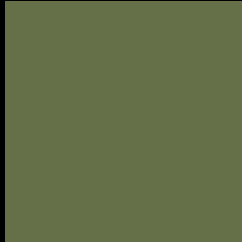
Large Text (above 18pt) WCAG AA ✓ Pass

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, 23.237, 118.085 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

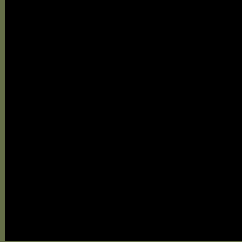
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

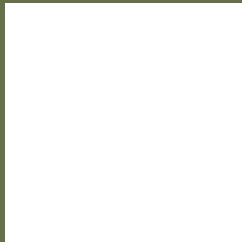
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 23.237, 118.085

Background



This preview shows how black text looks on a background with the CIELCh color 45, 23.237, 118.085.



This preview shows how white text looks on a background with the CIELCh color 45, 23.237, 118.085.

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, 23.237, 118.085

Protanopia

45, 21.625, 96.023

Deuteranopia

45, 20.476, 73.268



Tritanopia
45, 4.777, 290.856

Trichromacy



Original Color
45, 23.237, 118.085

Protanomaly
45, 21.729, 104.649

Deuteranomaly
45, 19.747, 91.194

Tritanomaly
45, 5.616, 126.752

Monochromacy



Original Color
45, 23.237, 118.085

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 8.518, 120.540

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 23.237, 118.085 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(101, 111, 72)` looks like.

```
.text, #text, p{  
    color:rgb(101, 111, 72)  
}
```

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(101, 111, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 111, 72) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 23.237, 118.085 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(101, 111, 72) }
```

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

```
.border{ border-color:rgb(101, 111, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 111, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 111, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 111, 72);  
box-shadow:4px 4px 4px 4px rgb(101, 111,  
72) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 23.237, 118.085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 111, 72) }
```

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

```
.background{ background-color: rgb(101,  
111, 72) }
```

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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