

Converting Colors

CIELCh(45, 2.831, 94.021)

Have a look what the booklet for
CIELCh(45, 2.831, 94.021) contains.

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Color

CIELCh(45, 2.512, 90.420)

Conversions

Conversions Part 1

Format	Color
Hex	6C6A66
RGB	108, 106, 102
RGB Percent	42%, 42%, 40%
CMY	0.5753, 0.5831, 0.5988
CMYK	0.00, 0.02, 0.06, 0.58
HSL	40°, 3%, 41%
HSV	40°, 6%, 42%
XYZ	13.8186, 14.5417, 14.7258
YIQ	106.1420, 2.4760, -0.8200

Conversions

Conversions Part 2

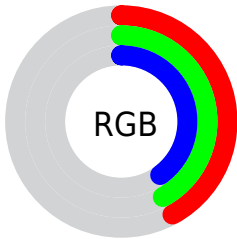
Format	Color
RYB	105, 108, 102
Decimal	7105126
CIELab	45.00, -0.02, 2.51
CIElCh	45, 2.512, 90.420
Yxy	14.5417, 0.3207, 0.3375
Android (android.graphics.Color)	4285295206 (0xFF6C6A66)
YUV	106.1420, -2.0420, 1.6295
Hunter-Lab	38.1336, -2.0503, 3.7978

Details

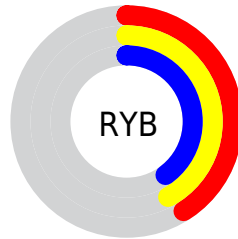
The CIELCh color $45, 2.512, 90.420$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $44, 2.520, 271.873$, and the grayscale version is $45, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 2.336, 90.585$, and $25, 2.780, 90.034$ is the 20% darker color. If you saturate the color by 10%, you get $44, 7.127, 89.296$, and if you desaturate by 10%, it is $46, 2.010, 271.736$.

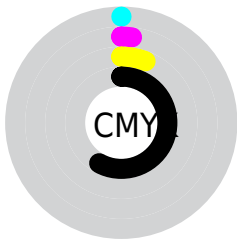
Distribution



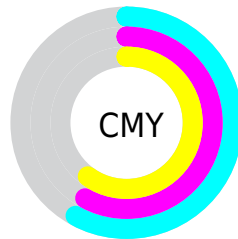
- Red (42%)
- Green (42%)
- Blue (40%)



- Red (41%)
- Yellow (42%)
- Blue (40%)



- Cyan (0%)
- Magenta (2%)
- Yellow (6%)
- Black (58%)



- Cyan (58%)
- Magenta (58%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 2.512, 90.420 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, 2.512, 90.420 by changing the saturation by 10% instead.

 45, 2.512, 90.420	 45, 2.512, 90.420
 100, 2.512, 90.420	 35, 2.512, 90.420
 65, 2.512, 90.420	 25, 2.512, 90.420
 75, 2.512, 90.420	 15, 2.512, 90.420
 85, 2.512, 90.420	 5, 2.512, 90.420
 95, 2.512, 90.420	 0, 2.512, 90.420

 45, 2.512, 90.420	 45, 2.512, 90.420
 44, 7.127, 89.296	 46, 2.010, 271.736
 42, 11.832, 88.074	 48, 6.443, 272.789
 41, 16.615, 86.812	 49, 10.792,

40, 21.451, 85.513	273.839
39, 26.286, 84.174	51, 15.062, 274.847
37, 31.016, 82.782	52, 19.259, 275.809
36, 35.461, 81.304	53, 23.389, 276.725
35, 39.321, 79.669	55, 27.458, 277.594
34, 42.429, 77.856	56, 31.469, 278.418
	58, 35.428, 279.199

Harmonies

Complementary

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



45, 2.512, 90.420



44, 2.520, 271.873

Rectangle

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



45, 2.512, 90.420



45, 2.512, 140.420



45, 2.512, 270.420



45, 2.512, 320.420

Sweetspot

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



45, 2.513, 90.448



58, 1.113, 90.749



44, 2.772, 354.065



30, 0.637, 90.753



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, 2.513, 90.448



57, 3.931, 90.269



45, 3.587, 116.333



22, 2.023, 90.272



37, 46.552, 76.900



73, 80.001, 75.122

Inverse Universe

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



44, 2.520, 271.873



56, 3.937, 272.065



44, 3.637, 297.090



21, 2.026, 272.062



19, 52.857, 295.102



42, 96.651, 297.260

Previews

White Background



This preview shows how the CIELCh color 45, 2.512, 90.420 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, 2.512, 90.420 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

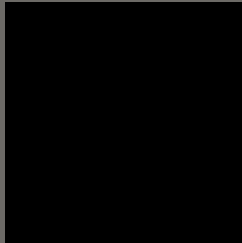
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 2.512, 90.420

Background



This preview shows how black text looks on a background with the CIELCh color 45, 2.512, 90.420.



This preview shows how white text looks on a background with the CIELCh color 45, 2.512, 90.420.

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, 2.512, 90.420

Protanopia

45, 2.677, 81.902

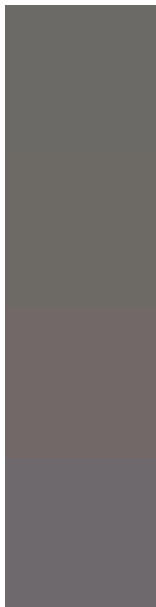
Deuteranopia

45, 6.330, 20.144



Tritanopia
45, 5.210, 313.569

Trichromacy



Original Color
45, 2.512, 90.420

Protanomaly
45, 2.677, 81.902

Deuteranomaly
45, 4.237, 27.885

Tritanomaly
45, 2.912, 324.575

Monochromacy



Original Color
45, 2.512, 90.420

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 0.716, 74.883

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 2.512, 90.420 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(108, 106, 102)` looks like.

```
.text, #text, p{  
    color:rgb(108, 106, 102)  
}
```

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(108, 106, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 106, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 2.512, 90.420 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(108, 106, 102) }
```

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

```
.border{ border-color:rgb(108, 106, 102) }
```

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

Here you see how a box with a 4 pixel rgb(108, 106, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(108, 106, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(108, 106, 102);  
box-shadow:4px 4px 4px 4px rgb(108, 106,  
102) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 2.512, 90.420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 106, 102) }
```

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

```
.background{ background-color: rgb(108,  
106, 102) }
```

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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