

Converting Colors

CIELCh(45, 10.791, 66.202)

Have a look what the booklet for
CIELCh(45, 10.791, 66.202) contains.

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Color

CIELCh(45, 10.827, 65.218)

Conversions

Conversions Part 1

Format	Color
Hex	78675A
RGB	120, 103, 90
RGB Percent	47%, 40%, 35%
CMY	0.5279, 0.5946, 0.6456
CMYK	0.00, 0.14, 0.25, 0.53
HSL	26°, 14%, 41%
HSV	26°, 25%, 47%
XYZ	14.5496, 14.5417, 11.7959
YIQ	106.6010, 14.3050, -0.4390

Conversions

Conversions Part 2

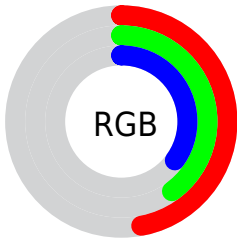
Format	Color
R_{YB}	120, 113, 90
Decimal	7890778
CIE _{Lab}	45.00, 4.54, 9.83
CIE _{LCh}	45, 10.827, 65.218
Yxy	14.5417, 0.3558, 0.3557
Android (android.graphics.Color)	4286080858 (0xFF78675A)
YUV	106.6010, -8.1843, 11.7509
Hunter-Lab	38.1336, 1.3715, 8.3534

Details

The CIELCh color **45, 10.827, 65.218** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **44, 9.882, 251.174**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 10.946, 64.736**, and **25, 11.024, 65.339** is the 20% darker color. If you saturate the color by 10%, you get **43, 15.606, 64.197**, and if you desaturate by 10%, it is **47, 6.306, 66.260**.

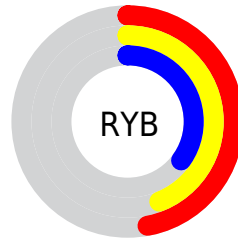
Distribution



Red (47%)

Green (40%)

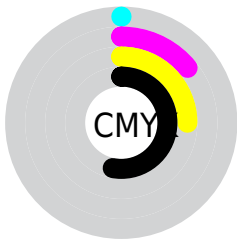
Blue (35%)



Red (47%)

Yellow (44%)

Blue (35%)

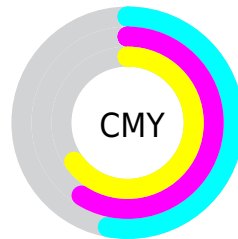


Cyan (0%)

Magenta (14%)

Yellow (25%)

Black (53%)



Cyan (53%)













Magenta (59%)







Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 10.827, 65.218 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, 10.827, 65.218 by changing the saturation by 10% instead.

 45, 10.827, 65.218	 45, 10.827, 65.218
 100, 10.827, 65.218	 35, 10.827, 65.218
 65, 10.827, 65.218	 25, 10.827, 65.218
 75, 10.827, 65.218	 15, 10.827, 65.218
 85, 10.827, 65.218	 5, 10.827, 65.218
 95, 10.827, 65.218	 0, 10.827, 65.218

 45, 10.827, 65.218	 45, 10.827, 65.218
 43, 15.606, 64.197	 47, 6.306, 66.260
 41, 20.651, 63.181	 49, 2.026, 67.217

■ 39, 25.951, 62.183

■ 52, 2.035, 248.550

■ 37, 31.454, 61.187

■ 54, 5.901, 249.491

■ 35, 37.034, 60.138

■ 56, 9.592, 250.484

■ 33, 42.415, 58.910

■ 59, 13.128,
251.461

■ 31, 47.225, 57.364

■ 61, 16.528,
252.411

■ 31, 49.796, 56.837

■ 63, 19.808,
253.329

■ 66, 22.982,
254.213

Harmonies

Complementary

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



45, 10.827, 65.218



44, 9.882, 251.174

Rectangle

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



45, 10.827, 65.218



45, 10.827, 115.218



45, 10.827, 245.218



45, 10.827, 295.218

Sweetspot

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



45, 10.827, 65.228



62, 3.567, 67.027



42, 16.069, 342.198



32, 2.339, 66.989



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 10.827, 65.228



56, 16.331, 64.629



49, 16.295, 104.921



25, 2.372, 66.846



32, 51.290, 56.750



63, 87.766, 54.666

Inverse Universe

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



44, 9.882, 251.174



55, 14.551, 252.160



40, 17.096, 290.267



24, 2.304, 248.983



29, 36.117, 274.917



59, 63.664, 277.726

Previews

White Background



This preview shows how the CIELCh color 45, 10.827, 65.218 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, 10.827, 65.218 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

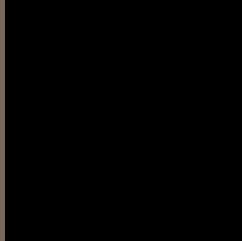
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

CIELCh 45, 10.827, 65.218

Background



This preview shows how black text looks on a background with the CIELCh color 45, 10.827, 65.218.

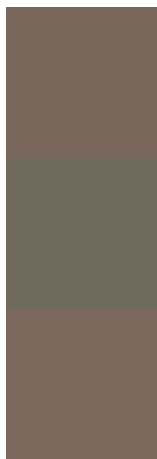


This preview shows how white text looks on a background with the CIELCh color 45, 10.827, 65.218.

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, 10.827, 65.218

Protanopia

45, 8.709, 91.596

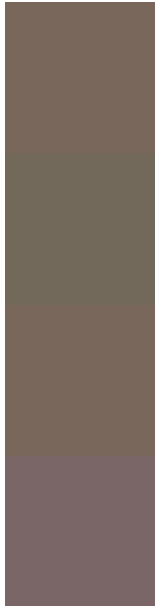
Deuteranopia

45, 11.415, 58.532



Tritanopia
45, 10.307, 353.343

Trichromacy



Original Color
45, 10.827, 65.218

Protanomaly
45, 9.409, 81.304

Deuteranomaly
45, 11.064, 59.961

Tritanomaly
45, 8.508, 20.441

Monochromacy



Original Color
45, 10.827, 65.218

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 3.890, 69.207

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 10.827, 65.218 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(120, 103, 90)` looks like.

```
.text, #text, p{  
    color:rgb(120, 103, 90)  
}
```

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(120, 103, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 103, 90) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 10.827, 65.218 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(120, 103, 90) }
```

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

```
.border{ border-color:rgb(120, 103, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 103, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 103, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 103, 90);  
box-shadow:4px 4px 4px 4px rgb(120, 103,  
90) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 10.827, 65.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 103, 90) }
```

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

```
.background{ background-color: rgb(120,  
103, 90) }
```

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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