

Converting Colors

CIELCh(45, 23.790, 216.376)

Have a look what the booklet for
CIELCh(45, 23.790, 216.376)
contains.

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Color

CIELCh(45, 23.689, 216.485)

Conversions

Conversions Part 1

Format	Color
Hex	257481
RGB	37, 116, 129
RGB Percent	15%, 45%, 51%
CMY	0.8535, 0.5441, 0.4931
CMYK	0.71, 0.10, 0.00, 0.49
HSL	188°, 55%, 33%
HSV	188°, 71%, 51%
XYZ	11.0302, 14.5417, 23.0853
YIQ	93.8610, -51.2570, -12.7050

Conversions

Conversions Part 2

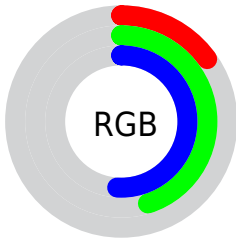
Format	Color
R_{YB}	37, 80, 129
Decimal	2454657
CIE _{Lab}	45.00, -19.05, -14.09
CIE _{LCh}	45, 23.689, 216.485
Yxy	14.5417, 0.2267, 0.2989
Android (android.graphics.Color)	4280644737 (0xFF257481)
YUV	93.8610, 17.3235, -49.8671
Hunter-Lab	38.1336, -15.1025, -9.1994




Details

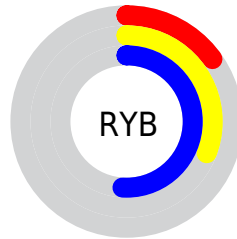
The CIELCh color **45, 23.689, 216.485** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **32, 41.788, 37.384**, and the grayscale version is **40, 0.006, 296.813**.




A 20% lighter version of the original color is **65, 23.768, 216.965**, and **26, 18.858, 221.938** is the 20% darker color. If you saturate the color by 10%, you get **44, 25.074, 218.030**, and if you desaturate by 10%, it is **46, 21.741, 215.297**.

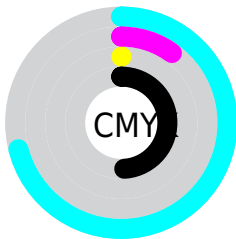
Distribution







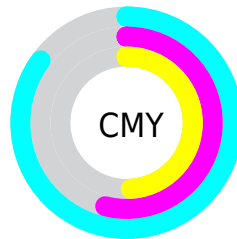
-  Red (15%)
-  Green (45%)
-  Blue (51%)






-  Red (15%)
-  Yellow (31%)
-  Blue (51%)



-  Cyan (71%)
-  Magenta (10%)
-  Yellow (0%)
-  Black (49%)




-  Cyan (85%)
-  Magenta (54%)
-  Yellow (49%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 23.689, 216.485 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, 23.689, 216.485 by changing the saturation by 10% instead.

 45, 23.689,
216.485


 45, 23.689,
216.485


 100, 23.689,
216.485


 35, 23.689,
216.485

 65, 23.689,
216.485


 25, 23.689,
216.485

 75, 23.689,
216.485

 15, 23.689,
216.485

 85, 23.689,
216.485

 5, 23.689, 216.485

 95, 23.689,
216.485

 0, 23.689, 216.485

 45, 23.689,

 45, 23.689,

216.485

216.485

■ 44, 25.074,
218.030

■ 46, 21.741,
215.297

■ 43, 25.918,
219.986

■ 47, 19.248,
214.413

■ 43, 26.416,
221.937

■ 48, 16.254,
213.783

■ 50, 12.815,
213.362

■ 51, 9.000, 213.114

■ 52, 4.873, 213.024

■ 54, 0.497, 213.727

■ 56, 4.071, 32.881

■ 57, 8.784, 33.058

Harmonies

Complementary

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



45, 23.689, 216.485



32, 41.788, 37.384

Rectangle

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



45, 23.689, 216.485



45, 23.689, 266.485



45, 23.689, 36.485



45, 23.689, 86.485

Sweetspot

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



45, 23.688, 216.484



65, 11.097, 213.121



47, 56.029, 141.523



33, 7.422, 213.165



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



45, 23.688, 216.484



56, 31.081, 219.125



31, 37.476, 283.293



26, 2.458, 213.030



42, 26.158, 221.898



0, 0.000, 0.000

Inverse Universe

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



32, 54.214, 332.777



40, 73.102, 333.745



43, 38.160, 78.873



25, 4.628, 329.056



29, 62.094, 334.566



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 23.689, 216.485 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, 23.689, 216.485 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

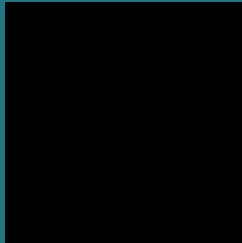
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 23.689, 216.485

Background



This preview shows how black text looks on a background with the CIELCh color 45, 23.689, 216.485.

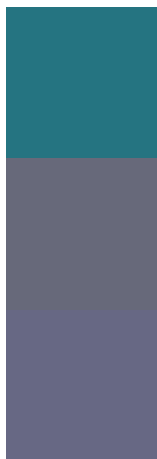


This preview shows how white text looks on a background with the CIELCh color 45, 23.689, 216.485.

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, 23.689, 216.485

Protanopia

45, 10.174, 287.284

Deuteranopia

45, 16.736, 291.240



Tritanopia
45, 24.100, 210.002

Trichromacy



Original Color
45, 23.689, 216.485

Protanomaly
44, 13.991, 242.012

Deuteranomaly
44, 16.633, 255.100

Tritanomaly
45, 23.948, 211.613

Monochromacy



Original Color
45, 23.689, 216.485

Achromatopsia
40, 0.006, 296.813

Achromatomaly
41, 11.165, 214.056

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 23.689, 216.485 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(37, 116, 129)` looks like.

```
.text, #text, p{  
    color:rgb(37, 116, 129)  
}
```

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(37, 116, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 116, 129) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 23.689, 216.485 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(37, 116, 129) }
```

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

```
.border{ border-color:rgb(37, 116, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 116, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 116, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 116, 129);  
box-shadow:4px 4px 4px 4px rgb(37, 116,  
129) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 23.689, 216.485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 116, 129) }
```

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

```
.background{ background-color: rgb(37, 116,  
129) }
```

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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