

Converting Colors

CIELCh(45, 23.285, 215.950)

Have a look what the booklet for
CIELCh(45, 23.285, 215.950)
contains.

CIELCh(45, 23.228, 216.926)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(45, 23.228, 216.926)

Conversions

Conversions Part 1

Format	Color
Hex	287481
RGB	40, 116, 129
RGB Percent	16%, 45%, 51%
CMY	0.8429, 0.5449, 0.4939
CMYK	0.69, 0.10, 0.00, 0.49
HSL	189°, 53%, 33%
HSV	189°, 69%, 51%
XYZ	11.0951, 14.5417, 23.0094
YIQ	94.7580, -49.4690, -12.0690

Conversions

Conversions Part 2

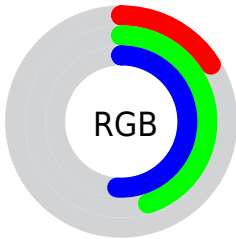
Format	Color
R_{YB}	40, 81, 129
Decimal	2651265
CIE _{Lab}	45.00, -18.57, -13.95
CIE _{LCh}	45, 23.228, 216.926
Yxy	14.5417, 0.2281, 0.2989
Android (android.graphics.Color)	4280841345 (0xFF287481)
YUV	94.7580, 16.8813, -48.0228
Hunter-Lab	38.1336, -14.7986, -9.0814

Details

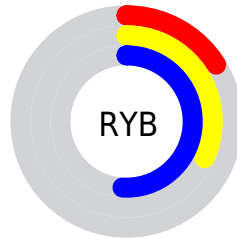
The CIELCh color **45, 23.228, 216.926** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **33, 40.115, 37.358**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 23.305, 217.397**, and **26, 18.858, 221.938** is the 20% darker color. If you saturate the color by 10%, you get **44, 24.736, 218.451**, and if you desaturate by 10%, it is **46, 21.163, 215.756**.

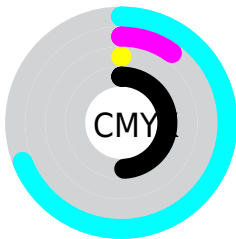
Distribution



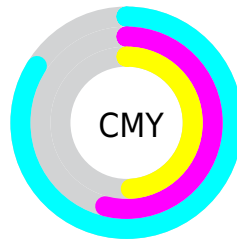
- Red (16%)
- Green (45%)
- Blue (51%)



- Red (16%)
- Yellow (32%)
- Blue (51%)



- Cyan (69%)
- Magenta (10%)
- Yellow (0%)
- Black (49%)




- Cyan (84%)
- Magenta (54%)
- Yellow (49%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 23.228, 216.926 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, 23.228, 216.926 by changing the saturation by 10% instead.


 45, 23.228,
216.926


 45, 23.228,
216.926


 100, 23.228,
216.926

 35, 23.228,
216.926

 65, 23.228,
216.926


 25, 23.228,
216.926

 75, 23.228,
216.926

 15, 23.228,
216.926

 85, 23.228,
216.926

 5, 23.228, 216.926

 95, 23.228,
216.926

 0, 23.228, 216.926

 45, 23.228,

 45, 23.228,

216.926

■ 44, 24.736,
218.451

■ 43, 25.700,
220.390

■ 43, 26.288,
222.656

■ 42, 26.350,
222.892

216.926

■ 46, 21.163,
215.756

■ 47, 18.565,
214.889

■ 48, 15.479,
214.272

■ 50, 11.968,
213.861

■ 51, 8.096, 213.621

■ 53, 3.930, 213.548

■ 54, 0.471, 32.573

■ 56, 5.053, 33.401

■ 58, 9.769, 33.558

Harmonies

Complementary

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



45, 23.228, 216.926



33, 40.115, 37.358

Rectangle

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



45, 23.228, 216.926



45, 23.228, 266.926



45, 23.228, 36.926



45, 23.228, 86.926

Sweetspot

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



45, 23.227, 216.925



65, 11.061, 213.667



48, 54.604, 141.820



33, 7.398, 213.717



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, 23.227, 216.925



56, 30.807, 219.560



31, 36.228, 282.593



26, 2.450, 213.548



42, 26.122, 222.856



0, 0.000, 0.000

Inverse Universe

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



33, 52.858, 332.832



40, 72.199, 333.827



43, 36.993, 79.207



25, 4.613, 329.207



29, 61.879, 334.807



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 23.228, 216.926 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, 23.228, 216.926 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

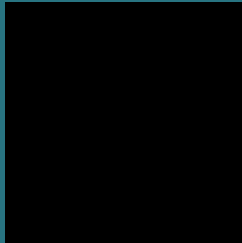
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 23.228, 216.926

Background



This preview shows how black text looks on a background with the CIELCh color 45, 23.228, 216.926.

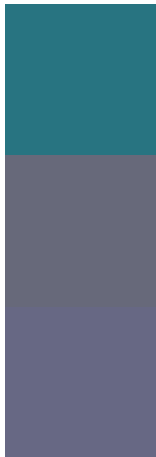


This preview shows how white text looks on a background with the CIELCh color 45, 23.228, 216.926.

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, 23.228, 216.926

Protanopia

45, 10.174, 287.284

Deuteranopia

45, 16.736, 291.240



Tritanopia
45, 23.640, 210.303

Trichromacy



Original Color
45, 23.228, 216.926

Protanomaly
44, 13.763, 242.938

Deuteranomaly
44, 16.462, 256.003

Tritanomaly
45, 23.483, 211.952

Monochromacy



Original Color
45, 23.228, 216.926

Achromatopsia
40, 0.006, 296.813

Achromatomaly
42, 10.749, 211.318

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 23.228, 216.926 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(40, 116, 129)` looks like.

```
.text, #text, p{  
    color:rgb(40, 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(40, 116, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 116, 129) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 23.228, 216.926 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(40, 116, 129) }
```

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

```
.border{ border-color:rgb(40, 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(40, 116, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 116, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 116, 129);  
box-shadow:4px 4px 4px 4px rgb(40, 116,  
129) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 23.228, 216.926 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 116, 129) }
```

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

```
.background{ background-color: rgb(40, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor