

Converting Colors

CIELCh(45, 13.329, 218.310)

Have a look what the booklet for
CIELCh(45, 13.329, 218.310)
contains.

CIELCh(45, 13.296, 219.323)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(45, 13.296, 219.323)

Conversions

Conversions Part 1

Format	Color
Hex	4D7078
RGB	77, 112, 120
RGB Percent	30%, 44%, 47%
CMY	0.6978, 0.5605, 0.5291
CMYK	0.36, 0.07, 0.00, 0.53
HSL	191°, 22%, 39%
HSV	191°, 36%, 47%
XYZ	12.2620, 14.5417, 19.9518
YIQ	102.4470, -23.4280, -4.9320

Conversions

Conversions Part 2

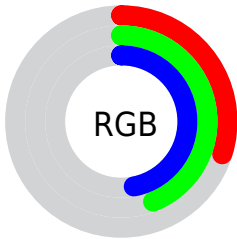
Format	Color
RYB	77, 96, 120
Decimal	5075064
CIELab	45.00, -10.29, -8.43
CIElCh	45, 13.296, 219.323
Yxy	14.5417, 0.2623, 0.3110
Android (android.graphics.Color)	4283265144 (0xFF4D7078)
YUV	102.4470, 8.6536, -22.3170
Hunter-Lab	38.1336, -9.3363, -4.3275

Details

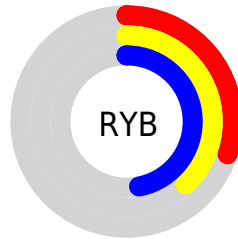
The CIELCh color **45, 13.296, 219.323** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **40, 16.960, 37.935**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 13.209, 218.214**, and **25, 13.254, 221.274** is the 20% darker color. If you saturate the color by 10%, you get **44, 16.305, 220.152**, and if you desaturate by 10%, it is **46, 9.931, 218.720**.

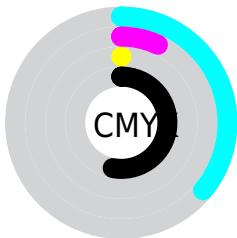
Distribution



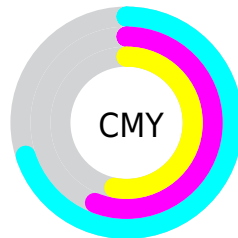
- Red (30%)
- Green (44%)
- Blue (47%)



- Red (30%)
- Yellow (38%)
- Blue (47%)



- Cyan (36%)
- Magenta (7%)
- Yellow (0%)
- Black (53%)





- Cyan (70%)
- Magenta (56%)
- Yellow (53%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 13.296, 219.323 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, 13.296, 219.323 by changing the saturation by 10% instead.


 45, 13.296,
219.323


 45, 13.296,
219.323


 100, 13.296,
219.323


 35, 13.296,
219.323

 65, 13.296,
219.323


 25, 13.296,
219.323

 75, 13.296,
219.323

 15, 13.296,
219.323

 85, 13.296,
219.323

 5, 13.296, 219.323

 95, 13.296,
219.323

 0, 13.296, 219.323

 45, 13.296,

 45, 13.296,

219.323

■ 44, 16.305,
220.152

■ 42, 18.902,
221.270

■ 41, 21.044,
222.736

■ 40, 22.703,
224.617

■ 39, 23.884,
226.984

■ 38, 24.669,
229.829

■ 38, 24.987,
231.022

219.323

■ 46, 9.931, 218.720

■ 48, 6.268, 218.316

■ 50, 2.363, 218.134

■ 51, 1.735, 37.592

■ 53, 5.979, 37.669

■ 55, 10.334, 37.688

■ 56, 14.768, 37.744

■ 58, 19.254, 37.835

■ 60, 23.773, 37.954

Harmonies

Complementary

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



45, 13.296, 219.323



40, 16.960, 37.935

Rectangle

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



45, 13.296, 219.323



45, 13.296, 269.323



45, 13.296, 39.323



45, 13.296, 89.323

Sweetspot

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



45, 13.296, 219.319



62, 5.454, 218.196



47, 27.173, 147.287



32, 3.683, 218.220



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, 13.296, 219.319



56, 19.067, 219.986



38, 18.482, 277.855



25, 2.308, 218.156



39, 25.717, 231.183



77, 43.411, 233.298

Inverse Universe

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



39, 27.208, 332.223



47, 40.063, 332.758



46, 18.481, 88.044



24, 4.334, 330.546



28, 59.225, 336.960



57, 98.974, 337.531

Previews

White Background



This preview shows how the CIE LCh color 45, 13.296, 219.323 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, 13.296, 219.323 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

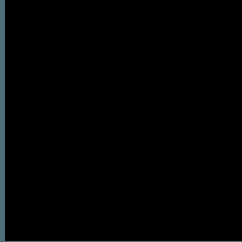
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 13.296, 219.323

Background



This preview shows how black text looks on a background with the CIELCh color 45, 13.296, 219.323.



This preview shows how white text looks on a background with the CIELCh color 45, 13.296, 219.323.

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, 13.296, 219.323

Protanopia

45, 6.577, 291.109

Deuteranopia

45, 11.647, 303.283



Tritanopia
45, 13.447, 221.864

Trichromacy



Original Color
45, 13.296, 219.323

Protanomaly
45, 7.229, 247.244

Deuteranomaly
45, 9.506, 270.383

Tritanomaly
45, 13.447, 221.864

Monochromacy



Original Color
45, 13.296, 219.323

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 5.030, 219.949

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 13.296, 219.323 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(77, 112, 120)` looks like.

```
.text, #text, p{  
    color:rgb(77, 112, 120)  
}
```

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(77, 112, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 112, 120) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 13.296, 219.323 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(77, 112, 120) }
```

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

```
.border{ border-color:rgb(77, 112, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 112, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 112, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 112, 120);  
box-shadow:4px 4px 4px 4px rgb(77, 112,  
120) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 13.296, 219.323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 112, 120) }
```

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

```
.background{ background-color: rgb(77, 112,  
120) }
```

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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