

Converting Colors

CIELCh(45, 21.880, 288.118)

Have a look what the booklet for
CIELCh(45, 21.880, 288.118)
contains.

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Color

CIELCh(45, 22.123, 288.678)

Conversions

Conversions Part 1

Format	Color
Hex	63688D
RGB	99, 104, 141
RGB Percent	39%, 41%, 55%
CMY	0.6109, 0.5913, 0.4461
CMYK	0.30, 0.26, 0.00, 0.45
HSL	233°, 17%, 47%
HSV	233°, 30%, 55%
XYZ	14.9691, 14.5417, 27.3104
YIQ	106.7230, -14.8570, 10.4470

Conversions

Conversions Part 2

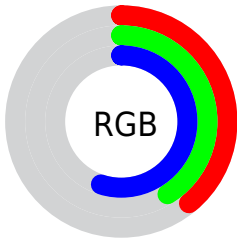
Format	Color
R_{YB}	99, 103, 141
Decimal	6514829
CIE _{Lab}	45.00, 7.08, -20.96
CIE _{LCh}	45, 22.123, 288.678
Yxy	14.5417, 0.2634, 0.2559
Android (android.graphics.Color)	4284704909 (0xFF63688D)
YUV	106.7230, 16.8986, -6.7731
Hunter-Lab	38.1336, 3.3354, -15.7686

Details

The CIELCh color `45, 22.123, 288.678` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `56, 21.029, 101.750`, and the grayscale version is `45, 0.006, 296.813`.

A 20% lighter version of the original color is `65, 22.272, 288.992`, and `25, 22.435, 289.308` is the 20% darker color. If you saturate the color by 10%, you get `40, 30.103, 290.397`, and if you desaturate by 10%, it is `50, 14.430, 287.201`.

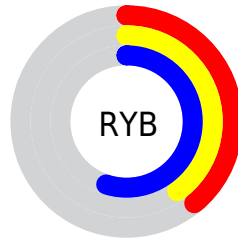
Distribution



Red (39%)

Green (41%)

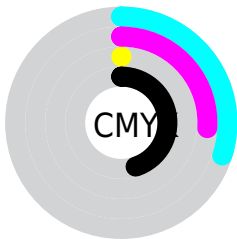
Blue (55%)



Red (39%)

Yellow (40%)

Blue (55%)

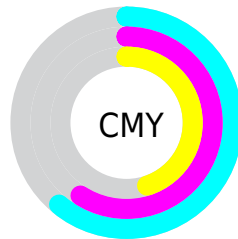


Cyan (30%)

Magenta (26%)

Yellow (0%)

Black (45%)



Cyan (61%)


Magenta (59%)

Yellow (45%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 22.123, 288.678 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, 22.123, 288.678 by changing the saturation by 10% instead.

 45, 22.123,
288.678


 45, 22.123,
288.678


 100, 22.123,
288.678


 35, 22.123,
288.678

 65, 22.123,
288.678


 25, 22.123,
288.678

 75, 22.123,
288.678

 15, 22.123,
288.678

 85, 22.123,
288.678

 5, 22.123, 288.678

 95, 22.123,
288.678

 0, 22.123, 288.678

 45, 22.123,

 45, 22.123,

288.678

40, 30.103,
290.397

36, 38.391,
292.384

31, 46.982,
294.639

27, 55.801,
297.115

23, 64.615,
299.694

20, 72.892,
302.160

17, 79.819,
304.141

17, 79.973,
304.180

288.678

50, 14.430,
287.201

54, 7.005, 285.942

59, 0.174, 104.332

63, 7.125, 103.895

68, 13.861,
103.093

72, 20.397,
102.393

77, 26.743,
101.780

81, 32.909,
101.241

86, 38.904,

Harmonies

Complementary

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



45, 22.123, 288.678



56, 21.029, 101.750

Rectangle

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



45, 22.123, 288.678



45, 22.123, 338.678



45, 22.123, 108.678



45, 22.123, 158.678

Sweetspot

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



45, 22.122, 288.677



70, 8.008, 285.878



56, 15.754, 186.056



35, 5.556, 286.029



88, 0.010, 296.813



39, 0.006, 296.813

Same Dimension

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



45, 22.122, 288.677



54, 33.592, 289.858



45, 25.832, 306.001



28, 4.092, 285.878



16, 77.234, 304.098



0, 2.727, 284.870

Inverse Universe

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



47, 18.195, 12.616



57, 27.776, 13.635



57, 24.517, 122.761



28, 3.281, 10.306



27, 60.285, 33.506



0, 2.157, 9.614

Previews

White Background



This preview shows how the CIELCh color 45, 22.123, 288.678 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, 22.123, 288.678 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

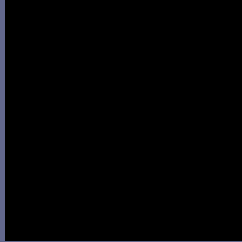
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 22.123, 288.678

Background



This preview shows how black text looks on a background with the CIELCh color 45, 22.123, 288.678.



This preview shows how white text looks on a background with the CIELCh color 45, 22.123, 288.678.

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

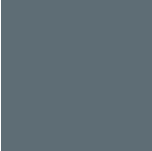
45, 22.123, 288.678

Protanopia

45, 22.202, 285.148

Deuteranopia

45, 21.548, 286.605



Tritanopia
45, 7.361, 239.498

Trichromacy



Original Color
45, 22.123, 288.678

Protanomaly
45, 22.166, 286.012

Deuteranomaly
45, 21.548, 286.605

Tritanomaly
45, 11.932, 271.752

Monochromacy



Original Color
45, 22.123, 288.678

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 7.784, 285.534

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 22.123, 288.678 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(99, 104, 141)` looks like.

```
.text, #text, p{  
    color:rgb(99, 104, 141)  
}
```

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(99, 104, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 104, 141) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 22.123, 288.678 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(99, 104, 141) }
```

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

```
.border{ border-color:rgb(99, 104, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 104, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 104, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 104, 141);  
box-shadow:4px 4px 4px 4px rgb(99, 104,  
141) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 22.123, 288.678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 104, 141) }
```

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

```
.background{ background-color: rgb(99, 104,  
141) }
```

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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