

Converting Colors

CIELCh(45, 20.837, 214.170)

Have a look what the booklet for
CIELCh(45, 20.837, 214.170)
contains.

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Color

CIELCh(45, 20.837, 214.170)

Conversions

Conversions Part 1

Format	Color
Hex	33737D
RGB	51, 115, 125
RGB Percent	20%, 45%, 49%
CMY	0.7985, 0.5477, 0.5085
CMYK	0.59, 0.08, 0.00, 0.51
HSL	188°, 42%, 35%
HSV	188°, 59%, 49%
XYZ	11.2771, 14.5417, 21.7291
YIQ	97.0040, -41.3540, -10.4580

Conversions

Conversions Part 2

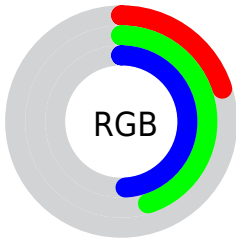
Format	Color
RYB	51, 85, 125
Decimal	3371901
CIELab	45.00, -17.24, -11.70
CIElCh	45, 20.837, 214.170
Yxy	14.5417, 0.2372, 0.3058
Android (android.graphics.Color)	4281561981 (0xFF33737D)
YUV	97.0040, 13.8020, -40.3455
Hunter-Lab	38.1336, -13.9468, -7.0907




Details

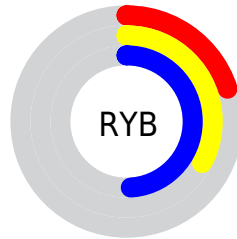
The CIELCh color **45, 20.837, 214.170** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **34, 32.698, 35.275**, and the grayscale version is **41, 0.006, 296.813**.




A 20% lighter version of the original color is **65, 20.838, 215.052**, and **25, 18.491, 215.724** is the 20% darker color. If you saturate the color by 10%, you get **44, 22.862, 215.209**, and if you desaturate by 10%, it is **46, 18.285, 213.406**.

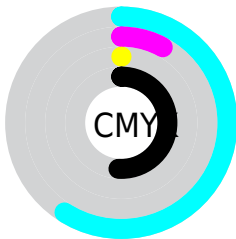
Distribution







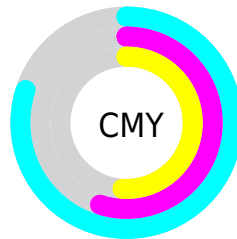
-  Red (20%)
-  Green (45%)
-  Blue (49%)






-  Red (20%)
-  Yellow (33%)
-  Blue (49%)



-  Cyan (59%)
-  Magenta (8%)
-  Yellow (0%)
-  Black (51%)





-  Cyan (80%)
-  Magenta (55%)
-  Yellow (51%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 20.837, 214.170 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, 20.837, 214.170 by changing the saturation by 10% instead.


 45, 20.837,
214.170


 45, 20.837,
214.170


 100, 20.837,
214.170


 35, 20.837,
214.170

 65, 20.837,
214.170


 25, 20.837,
214.170

 75, 20.837,
214.170

 15, 20.837,
214.170

 85, 20.837,
214.170

 5, 20.837, 214.170

 95, 20.837,
214.170

 0, 20.837, 214.170

 45, 20.837,

 45, 20.837,

214.170

■ 44, 22.862,
215.209

■ 43, 24.337,
216.578

■ 42, 25.273,
218.327

■ 42, 25.842,
220.367

■ 42, 25.899,
220.567

214.170

■ 46, 18.285,
213.406

■ 47, 15.253,
212.876

■ 48, 11.801,
212.537

■ 50, 7.993, 212.359

■ 51, 3.893, 212.338

■ 53, 0.437, 31.361

■ 54, 4.945, 32.280

■ 56, 9.586, 32.475

■ 58, 14.321, 32.688

Harmonies

Complementary

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



45, 20.837, 214.170



34, 32.698, 35.275

Rectangle

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



45, 20.837, 214.170



45, 20.837, 264.170



45, 20.837, 34.170



45, 20.837, 84.170

Sweetspot

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



45, 20.837, 214.168



64, 9.408, 212.353



47, 46.756, 143.146



32, 6.456, 212.381



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



45, 20.837, 214.168



56, 28.445, 215.673



33, 30.047, 279.545



26, 2.469, 212.337



42, 26.216, 220.614



0, 0.000, 0.000

Inverse Universe

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



34, 46.180, 331.809



41, 65.344, 332.607



43, 30.898, 80.697



25, 4.648, 328.854



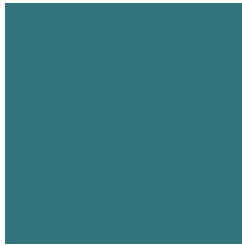
29, 62.385, 334.246



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 45, 20.837, 214.170 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, 20.837, 214.170 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

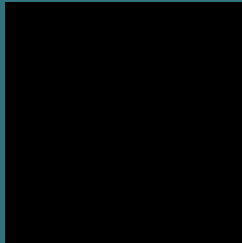
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 20.837, 214.170

Background



This preview shows how black text looks on a background with the CIELCh color 45, 20.837, 214.170.

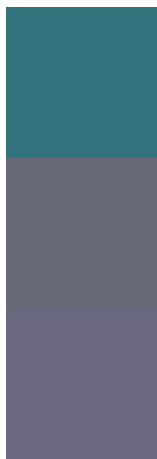


This preview shows how white text looks on a background with the CIELCh color 45, 20.837, 214.170.

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, 20.837, 214.170

Protanopia
45, 8.371, 288.696

Deuteranopia
45, 14.365, 293.670



Tritanopia
45, 20.837, 214.170

Trichromacy



Original Color
45, 20.837, 214.170

Protanomaly
45, 11.157, 238.891

Deuteranomaly
45, 13.573, 256.128

Tritanomaly
45, 20.837, 214.170

Monochromacy



Original Color
45, 20.837, 214.170

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 9.318, 209.642

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 20.837, 214.170 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(51, 115, 125)` looks like.

```
.text, #text, p{  
    color:rgb(51, 115, 125)  
}
```

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(51, 115, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 115, 125) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 20.837, 214.170 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(51, 115, 125) }
```

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

```
.border{ border-color:rgb(51, 115, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 115, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 115, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 115, 125);  
box-shadow:4px 4px 4px 4px rgb(51, 115,  
125) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 20.837, 214.170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 115, 125) }
```

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

```
.background{ background-color: rgb(51, 115,  
125) }
```

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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