

Converting Colors

CIELCh(45, 21.037, 268.807)

Have a look what the booklet for
CIELCh(45, 21.037, 268.807)
contains.

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Color

CIELCh(45, 21.031, 269.444)

Conversions

Conversions Part 1

Format	Color
Hex	536C8D
RGB	83, 108, 141
RGB Percent	33%, 42%, 55%
CMY	0.6737, 0.5757, 0.4463
CMYK	0.41, 0.23, 0.00, 0.45
HSL	214°, 26%, 44%
HSV	214°, 41%, 55%
XYZ	13.7893, 14.5417, 27.3573
YIQ	104.2870, -25.4930, 4.9630

Conversions

Conversions Part 2

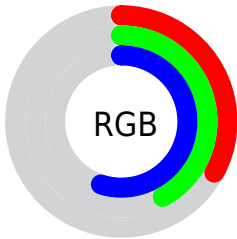
Format	Color
R_{YB}	83, 100, 141
Decimal	5467277
CIE _{Lab}	45.00, -0.20, -21.03
CIE _{LCh}	45, 21.031, 269.444
Yxy	14.5417, 0.2476, 0.2611
Android (android.graphics.Color)	4283657357 (0xFF536C8D)
YUV	104.2870, 18.0995, -18.6687
Hunter-Lab	38.1336, -2.1873, -15.8415

Details

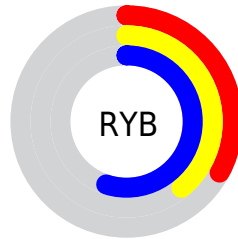
The CIELCh color $45, 21.031, 269.444$ is a dark color, and the websafe version is hex 336699 . A complement of this color would be $51, 22.448, 77.260$, and the grayscale version is $44, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 21.253, 270.304$, and $25, 21.108, 269.499$ is the 20% darker color. If you saturate the color by 10%, you get $42, 26.145, 271.922$, and if you desaturate by 10%, it is $48, 15.913, 267.327$.

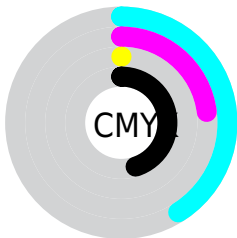
Distribution



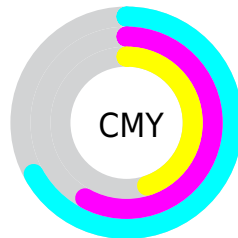
- Red (33%)
- Green (42%)
- Blue (55%)



- Red (33%)
- Yellow (39%)
- Blue (55%)



- Cyan (41%)
- Magenta (23%)
- Yellow (0%)
- Black (45%)



- Cyan (67%)
- Magenta (58%)
- Yellow (45%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 21.031, 269.444 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, 21.031, 269.444 by changing the saturation by 10% instead.

 45, 21.031,
269.444


 45, 21.031,
269.444


 100, 21.031,
269.444

 35, 21.031,
269.444

 65, 21.031,
269.444


 25, 21.031,
269.444

 75, 21.031,
269.444

 15, 21.031,
269.444

 85, 21.031,
269.444

 5, 21.031, 269.444

 95, 21.031,
269.444

 0, 21.031, 269.444

 45, 21.031,

 45, 21.031,

269.444

269.444

■ 42, 26.145,
271.922

■ 48, 15.913,
267.327

■ 39, 31.270,
274.800

■ 52, 10.791,
265.526

■ 36, 36.435,
278.093

■ 55, 5.669, 264.004

■ 33, 41.683,
281.768

■ 58, 0.558, 263.074

■ 62, 4.535, 81.447

■ 30, 47.055,
285.726

■ 65, 9.599, 80.489

■ 27, 51.991,
289.166

■ 68, 14.625, 79.636

■ 72, 19.608, 78.884

■ 75, 24.540, 78.217

Harmonies

Complementary

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



45, 21.031, 269.444



51, 22.448, 77.260

Rectangle

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



45, 21.031, 269.444



45, 21.031, 319.444



45, 21.031, 89.444



45, 21.031, 139.444

Sweetspot

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



45, 21.030, 269.443



70, 7.608, 264.169



54, 26.173, 163.352



36, 5.028, 264.326



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, 21.030, 269.443



54, 31.074, 271.647



38, 35.713, 297.482



28, 2.915, 263.747



26, 50.150, 288.984



1, 1.969, 262.516

Inverse Universe

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



43, 27.946, 351.862



52, 41.102, 353.207



57, 32.252, 109.381



28, 3.777, 348.284



28, 52.676, 7.267



1, 2.518, 347.546

Previews

White Background



This preview shows how the CIE LCh color 45, 21.031, 269.444 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, 21.031, 269.444 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

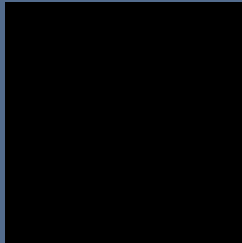
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

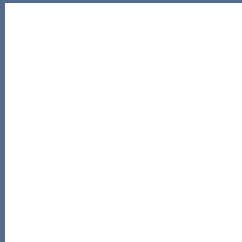
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 21.031, 269.444

Background



This preview shows how black text looks on a background with the CIELCh color 45, 21.031, 269.444.

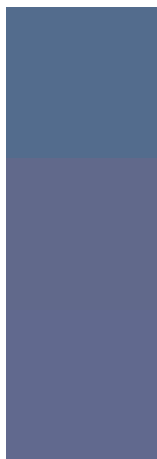


This preview shows how white text looks on a background with the CIELCh color 45, 21.031, 269.444.

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, 21.031, 269.444

Protanopia

45, 20.407, 285.054

Deuteranopia

45, 22.166, 286.012



Tritanopia
45, 13.159, 222.443

Trichromacy



Original Color
45, 21.031, 269.444

Protanomaly
45, 20.685, 279.460

Deuteranomaly
45, 21.831, 280.450

Tritanomaly
45, 14.550, 243.028

Monochromacy



Original Color
45, 21.031, 269.444

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 8.042, 262.739

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 21.031, 269.444 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(83, 108, 141)` looks like.

```
.text, #text, p{  
    color:rgb(83, 108, 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(83, 108, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 108, 141) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 21.031, 269.444 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(83, 108, 141) }
```

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

```
.border{ border-color:rgb(83, 108, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 108, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 108, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 108, 141);  
box-shadow:4px 4px 4px 4px rgb(83, 108,  
141) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 21.031, 269.444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 108, 141) }
```

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

```
.background{ background-color: rgb(83, 108,  
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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