

Converting Colors

CIELCh(45, 23.898, 237.207)

Have a look what the booklet for
CIELCh(45, 23.898, 237.207)
contains.

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Color

CIELCh(45, 23.765, 237.080)

Conversions

Conversions Part 1

Format	Color
Hex	2F728B
RGB	47, 114, 139
RGB Percent	18%, 45%, 55%
CMY	0.8150, 0.5524, 0.4543
CMYK	0.66, 0.18, 0.00, 0.45
HSL	196°, 49%, 37%
HSV	196°, 66%, 55%
XYZ	11.8831, 14.5417, 26.6603
YIQ	96.8170, -47.9570, -6.4290

Conversions

Conversions Part 2

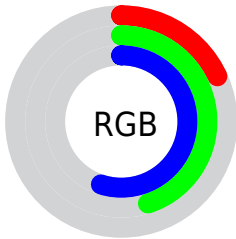
Format	Color
R_{YB}	47, 86, 139
Decimal	3109515
CIE _{Lab}	45.00, -12.92, -19.95
CIE _{LCh}	45, 23.765, 237.080
Yxy	14.5417, 0.2238, 0.2739
Android (android.graphics.Color)	4281299595 (0xFF2F728B)
YUV	96.8170, 20.7962, -43.6895
Hunter-Lab	38.1336, -11.1101, -14.7579

Details

The CIELCh color **45, 23.765, 237.080** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **38, 37.910, 46.470**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 23.960, 237.280**, and **26, 21.010, 244.199** is the 20% darker color. If you saturate the color by 10%, you get **43, 25.920, 240.041**, and if you desaturate by 10%, it is **47, 21.175, 234.688**.

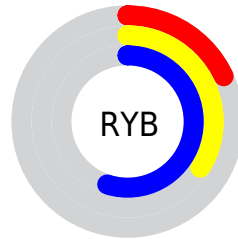
Distribution



Red (18%)

Green (45%)

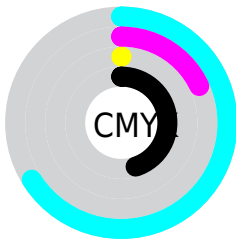
Blue (55%)



Red (18%)

Yellow (34%)

Blue (55%)

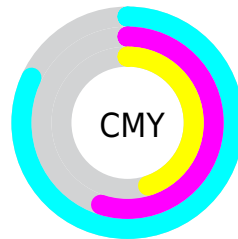


Cyan (66%)

Magenta (18%)

Yellow (0%)

Black (45%)



Cyan (82%)


Magenta (55%)


Yellow (45%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 23.765, 237.080 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, 23.765, 237.080 by changing the saturation by 10% instead.


 45, 23.765,
237.080


 45, 23.765,
237.080


 100, 23.765,
237.080


 35, 23.765,
237.080

 65, 23.765,
237.080


 25, 23.765,
237.080

 75, 23.765,
237.080

 15, 23.765,
237.080

 85, 23.765,
237.080

 5, 23.765, 237.080

 95, 23.765,
237.080

 0, 23.765, 237.080

 45, 23.765,

 45, 23.765,

237.080

237.080

■ 43, 25.920,
240.041

■ 47, 21.175,
234.688

■ 42, 27.674,
243.638

■ 49, 18.160,
232.782

■ 41, 29.129,
247.834

■ 50, 14.754,
231.280

■ 40, 29.706,
249.459

■ 52, 11.006,
230.107

■ 54, 6.971, 229.207

■ 57, 2.700, 228.582

■ 59, 1.756, 47.659

■ 61, 6.355, 47.400

■ 63, 11.061, 47.106

Harmonies

Complementary

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



45, 23.765, 237.080



38, 37.910, 46.470

Rectangle

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



45, 23.765, 237.080



45, 23.765, 287.080



45, 23.765, 57.080



45, 23.765, 107.080

Sweetspot

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



45, 23.764, 237.079



68, 10.621, 229.566



51, 50.906, 146.332



35, 7.255, 229.794



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, 23.764, 237.079



55, 32.492, 241.619



31, 44.730, 290.643



28, 2.462, 228.733



38, 28.644, 249.218



1, 1.165, 228.099

Inverse Universe

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



36, 50.093, 338.220



43, 68.689, 339.794



50, 40.815, 90.306



27, 4.499, 333.726



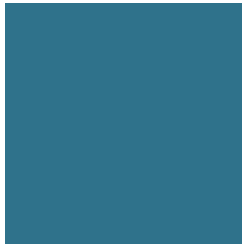
29, 58.151, 342.350



0, 2.073, 333.171

Previews

White Background



This preview shows how the CIE LCh color 45, 23.765, 237.080 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, 23.765, 237.080 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

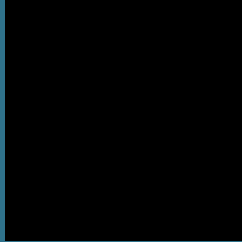
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 23.765, 237.080

Background



This preview shows how black text looks on a background with the CIELCh color 45, 23.765, 237.080.



This preview shows how white text looks on a background with the CIELCh color 45, 23.765, 237.080.

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, 23.765, 237.080

Protanopia

45, 16.219, 284.676

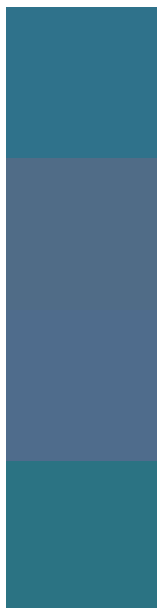
Deuteranopia

45, 22.171, 286.917



Tritanopia
45, 23.111, 212.245

Trichromacy



Original Color
45, 23.765, 237.080

Protanomaly
44, 18.347, 261.139

Deuteranomaly
45, 20.965, 265.532

Tritanomaly
45, 22.819, 222.385

Monochromacy



Original Color
45, 23.765, 237.080

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 10.317, 230.515

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 23.765, 237.080 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(47, 114, 139)` looks like.

```
.text, #text, p{  
    color:rgb(47, 114, 139)  
}
```

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(47, 114, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 114, 139) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 23.765, 237.080 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(47, 114, 139) }
```

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

```
.border{ border-color:rgb(47, 114, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 114, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 114, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 114, 139);  
box-shadow:4px 4px 4px 4px rgb(47, 114,  
139) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 23.765, 237.080 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 114, 139) }
```

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

```
.background{ background-color: rgb(47, 114,  
139) }
```

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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