

Converting Colors

CIELCh(46, 27.992, 268.591)

Have a look what the booklet for
CIELCh(46, 27.992, 268.591)
contains.

CIELCh(46, 27.609, 267.573)	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(46, 27.609, 267.573)

Conversions

Conversions Part 1

Format	Color
Hex	48709B
RGB	72, 112, 155
RGB Percent	28%, 44%, 61%
CMY	0.7185, 0.5616, 0.3931
CMYK	0.54, 0.28, 0.00, 0.39
HSL	211°, 37%, 44%
HSV	211°, 54%, 61%
XYZ	14.3228, 15.2687, 33.1017
YIQ	104.9420, -37.6430, 4.8930

Conversions

Conversions Part 2

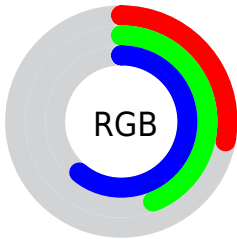
Format	Color
R_{YB}	72, 99, 155
Decimal	4747419
CIE _{Lab}	46.00, -1.17, -27.58
CIE _{LCh}	46, 27.609, 267.573
Yxy	15.2687, 0.2285, 0.2435
Android (android.graphics.Color)	4282937499 (0xFF48709B)
YUV	104.9420, 24.6786, -28.8901
Hunter-Lab	39.0751, -2.9533, -22.8738

Details

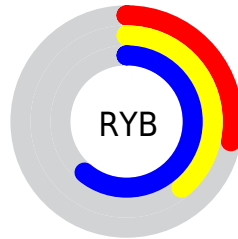
The CIELCh color **46, 27.609, 267.573** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **51, 31.580, 70.595**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 27.564, 267.365**, and **26, 27.599, 267.324** is the 20% darker color. If you saturate the color by 10%, you get **43, 32.558, 270.671**, and if you desaturate by 10%, it is **49, 22.599, 264.922**.

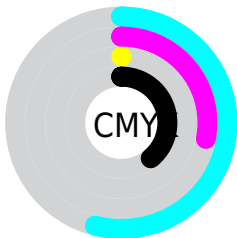
Distribution



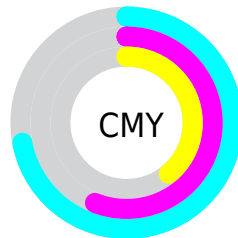
- Red (28%)
- Green (44%)
- Blue (61%)



- Red (28%)
- Yellow (39%)
- Blue (61%)



- Cyan (54%)
- Magenta (28%)
- Yellow (0%)
- Black (39%)



- Cyan (72%)
- Magenta (56%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 27.609, 267.573 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 46, 27.609, 267.573 by changing the saturation by 10% instead.

■ 46, 27.609,
267.573

■ 46, 27.609,
267.573

■ 100, 27.609,
267.573

■ 36, 27.609,
267.573

■ 66, 27.609,
267.573

■ 26, 27.609,
267.573

■ 76, 27.609,
267.573

■ 16, 27.609,
267.573

■ 86, 27.609,
267.573

■ 6, 27.609, 267.573

■ 96, 27.609,
267.573

■ 0, 27.609, 267.573

■ 46, 27.609,

■ 46, 27.609,

267.573

■ 43, 32.558,
270.671

■ 40, 37.484,
274.228

■ 37, 42.443,
278.206

■ 34, 47.504,
282.491

■ 33, 50.834,
285.122

267.573

■ 49, 22.599,
264.922

■ 53, 17.518,
262.674

■ 56, 12.368,
260.776

■ 59, 7.162, 259.182

■ 63, 1.916, 257.925

■ 66, 3.352, 76.517

■ 69, 8.627, 75.567

■ 73, 13.894, 74.712

■ 76, 19.141, 73.961

Harmonies

Complementary

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



46, 27.609, 267.573



51, 31.580, 70.595

Rectangle

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



46, 27.609, 267.573



46, 27.609, 317.573



46, 27.609, 87.573



46, 27.609, 137.573

Sweetspot

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



46, 27.608, 267.573



74, 10.412, 259.582



58, 37.522, 158.899



39, 7.081, 259.878



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



46, 27.608, 267.573



55, 40.557, 271.219



35, 51.555, 298.376



31, 2.947, 258.570



29, 46.896, 284.706



1, 3.217, 258.184

Inverse Universe

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



42, 39.861, 350.524



51, 57.263, 352.611



62, 44.464, 106.031



30, 4.135, 345.339



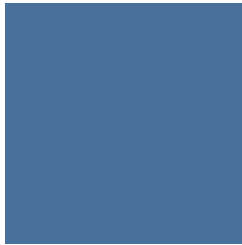
29, 54.264, 2.621



1, 4.395, 345.069

Previews

White Background



This preview shows how the CIELCh color 46, 27.609, 267.573 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 46, 27.609, 267.573 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 46, 27.609, 267.573

Background



This preview shows how black text looks on a background with the CIELCh color 46, 27.609, 267.573.

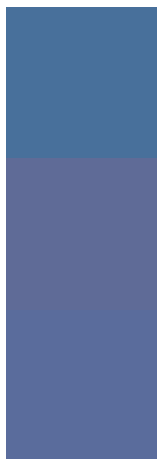


This preview shows how white text looks on a background with the CIELCh color 46, 27.609, 267.573.

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


46, 27.609, 267.573

Protanopia

46, 26.318, 284.977

Deuteranopia

46, 28.842, 282.454



Tritanopia
46, 18.858, 216.136

Trichromacy



Original Color
46, 27.609, 267.573

Protanomaly
46, 26.204, 277.857

Deuteranomaly
46, 28.699, 277.445

Tritanomaly
46, 19.910, 239.564

Monochromacy



Original Color
46, 27.609, 267.573

Achromatopsia
44, 0.006, 296.813

Achromatomaly
45, 10.741, 262.449

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 27.609, 267.573 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(72, 112, 155)` looks like.

```
.text, #text, p{  
    color:rgb(72, 112, 155)  
}
```

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(72, 112, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 112, 155) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 27.609, 267.573 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(72, 112, 155) }
```

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

```
.border{ border-color:rgb(72, 112, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 112, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 112, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 112, 155);  
box-shadow:4px 4px 4px 4px rgb(72, 112,  
155) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 27.609, 267.573 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 112, 155) }
```

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

```
.background{ background-color: rgb(72, 112,  
155) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor