

Converting Colors

CIELCh(36, 47.198, 309.983)

Have a look what the booklet for
CIELCh(36, 47.198, 309.983)
contains.

CIELCh(36, 46.875, 309.969)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(36, 46.875, 309.969)

Conversions

Conversions Part 1

Format	Color
Hex	66458F
RGB	102, 69, 143
RGB Percent	40%, 27%, 56%
CMY	0.6011, 0.7304, 0.4403
CMYK	0.29, 0.52, 0.00, 0.44
HSL	267°, 35%, 41%
HSV	267°, 52%, 56%
XYZ	12.4970, 9.0082, 26.9544
YIQ	87.3030, -4.0860, 30.0100

Conversions

Conversions Part 2

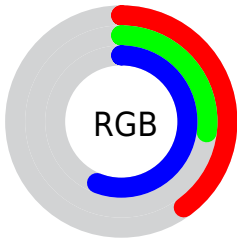
Format	Color
R_{YB}	102, 69, 143
Decimal	6702479
CIE _{Lab}	36.00, 30.11, -35.92
CIE _{LCh}	36, 46.875, 309.969
Yxy	9.0082, 0.2579, 0.1859
Android (android.graphics.Color)	4284892559 (0xFF66458F)
YUV	87.3030, 27.4586, 12.8893
Hunter-Lab	30.0136, 21.7999, -32.2372

Details

The CIELCh color $[36, 46.875, 309.969]$ is a dark color, and the websafe version is hex `663366`. A complement of this color would be $[55, 43.047, 124.770]$, and the grayscale version is $[37, 0.005, 296.813]$.

A 20% lighter version of the original color is $[56, 46.894, 310.053]$, and $[16, 47.147, 309.923]$ is the 20% darker color. If you saturate the color by 10%, you get $[32, 56.024, 310.526]$, and if you desaturate by 10%, it is $[40, 37.542, 309.374]$.

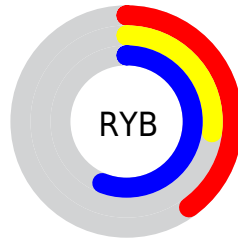
Distribution



Red (40%)

Green (27%)

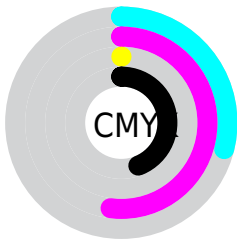
Blue (56%)



Red (40%)

Yellow (27%)

Blue (56%)

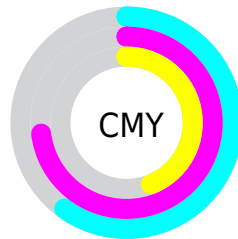


Cyan (29%)

Magenta (52%)

Yellow (0%)

Black (44%)



Cyan (60%)


Magenta (73%)


Yellow (44%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 36, 46.875, 309.969 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 36, 46.875, 309.969 by changing the saturation by 10% instead.


 36, 46.875,
309.969


 36, 46.875,
309.969

 100, 46.875,
309.969


 26, 46.875,
309.969

 56, 46.875,
309.969


 16, 46.875,
309.969


 66, 46.875,
309.969

 6, 46.875, 309.969

 76, 46.875,
309.969

 0, 46.875, 309.969

 86, 46.875,
309.969

 96, 46.875,
309.969

36, 46.875,
309.969

36, 46.875,
309.969

32, 56.024,
310.526

40, 37.542,
309.374

28, 64.628,
310.976

45, 28.247,
308.782

25, 72.151,
311.222

49, 19.115,
308.219

22, 77.936,
311.143

54, 10.210,
307.697

20, 81.745,
310.966

58, 1.561, 307.185

63, 6.823, 126.825

68, 14.944,
126.446

72, 22.811,
126.116

■ 77, 30.434,
125.828

Harmonies

Complementary

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



36, 46.875, 309.969



55, 43.047, 124.770

Rectangle

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



36, 46.875, 309.969



36, 46.875, 359.969



36, 46.875, 129.969



36, 46.875, 179.969

Sweetspot

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



36, 46.874, 309.969



66, 17.266, 307.928



45, 22.615, 257.004



34, 11.780, 308.023



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



36, 46.874, 309.969



41, 69.749, 310.602



41, 49.636, 325.036



28, 4.857, 307.565



19, 78.527, 311.022



0, 3.239, 307.151

Inverse Universe

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



40, 37.594, 345.831



48, 54.274, 347.491



53, 49.574, 138.971



28, 4.099, 341.502



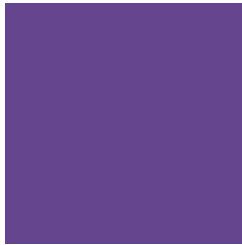
29, 53.778, 355.938



1, 2.742, 340.839

Previews

White Background



This preview shows how the CIELCh color 36, 46.875, 309.969 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 ✓ Pass

Black Background



This preview shows how the CIE LCh color 36, 46.875, 309.969 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

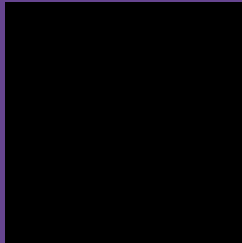
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 36, 46.875, 309.969

Background



This preview shows how black text looks on a background with the CIELCh color 36, 46.875, 309.969.



This preview shows how white text looks on a background with the CIELCh color 36, 46.875, 309.969.

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

36, 46.875, 309.969

Protanopia

36, 45.376, 286.171

Deuteranopia

36, 34.195, 279.389



Tritanopia
36, 6.101, 334.942

Trichromacy



Original Color
36, 46.875, 309.969

Protanomaly
36, 45.191, 293.534

Deuteranomaly
35, 37.900, 291.571

Tritanomaly
36, 21.320, 313.498

Monochromacy



Original Color
36, 46.875, 309.969

Achromatopsia
37, 0.005, 296.813

Achromatomaly
36, 17.507, 308.320

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 36, 46.875, 309.969 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(102, 69, 143)` looks like.

```
.text, #text, p{  
    color:rgb(102, 69, 143)  
}
```

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(102, 69, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 69, 143) }
```

Border

The CSS property to change the border of an element to CIELCh 36, 46.875, 309.969 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(102, 69, 143) }
```

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

```
.border{ border-color:rgb(102, 69, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 69, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 69, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 69, 143);  
box-shadow:4px 4px 4px 4px rgb(102, 69,  
143) }
```

Background

The CSS property to change the background color of an element to CIELCh 36, 46.875, 309.969 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 69, 143) }
```

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

```
.background{ background-color: rgb(102, 69,  
143) }
```

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