

Converting Colors

CIELCh(45, 91.664, 40.013)

Have a look what the booklet for
CIELCh(45, 91.664, 40.013) contains.

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Color

CIELCh(45, 91.553, 39.962)

Conversions

Conversions Part 1

Format	Color
Hex	D70301
RGB	215, 3, 1
RGB Percent	84%, 1%, 0%
CMY	0.1564, 0.9866, 0.9957
CMYK	0.00, 0.98, 0.99, 0.16
HSL	1°, 99%, 42%
HSV	1°, 99%, 84%
XYZ	28.1039, 14.5417, 1.3570
YIQ	66.1600, 126.9940, 44.3220

Conversions

Conversions Part 2

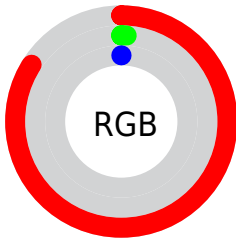
Format	Color
RYB	215, 3, 1
Decimal	14091009
CIELab	45.00, 70.17, 58.80
CIElCh	45, 91.553, 39.962
Yxy	14.5417, 0.6387, 0.3305
Android (android.graphics.Color)	4292281089 (0xFFD70301)
YUV	66.1600, -32.1239, 130.5327
Hunter-Lab	38.1336, 64.8182, 24.5837

Details

The CIELCh color **45, 91.553, 39.962** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **78, 43.370, 198.093**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 81.147, 40.393**, and **30, 69.440, 39.398** is the 20% darker color. If you saturate the color by 10%, you get **45, 91.838, 40.094**, and if you desaturate by 10%, it is **46, 85.654, 37.474**.

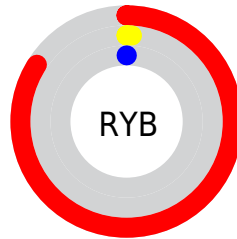
Distribution



Red (84%)

Green (1%)

Blue (0%)



Red (84%)

Yellow (1%)

Blue (0%)

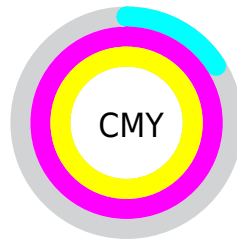


Cyan (0%)

Magenta (98%)

Yellow (99%)

Black (16%)



Cyan (16%)

Magenta (99%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 91.553, 39.962 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, 91.553, 39.962 by changing the saturation by 10% instead.

 45, 91.553, 39.962

 45, 91.553, 39.962

 100, 91.553,
39.962

 35, 91.553, 39.962

 65, 91.553, 39.962

 25, 91.553, 39.962

 75, 91.553, 39.962

 15, 91.553, 39.962

 85, 91.553, 39.962

 5, 91.553, 39.962

 95, 91.553, 39.962

 0, 91.553, 39.962

 45, 91.553, 39.962

 45, 91.553, 39.962

 45, 91.838, 40.094

 46, 85.654, 37.474

 48, 76.968, 34.133

■ 51, 66.874, 30.800

■ 54, 56.266, 27.964

■ 59, 45.617, 25.711

■ 64, 35.253, 23.973

■ 69, 25.389, 22.645

■ 75, 16.143, 21.626

■ 80, 7.555, 20.815

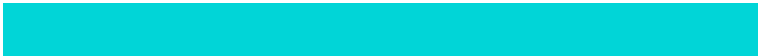
Harmonies

Complementary

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



45, 91.553, 39.962



78, 43.370, 198.093

Rectangle

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



45, 91.553, 39.962



45, 91.553, 89.962



45, 91.553, 219.962



45, 91.553, 269.962

Sweetspot

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



45, 91.550, 39.964



80, 29.737, 22.738



51, 101.555, 328.229



40, 20.609, 23.272



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 91.550, 39.964



53, 104.445, 40.076



57, 74.881, 60.306



42, 4.501, 20.810



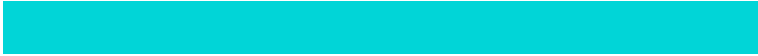
35, 77.198, 40.032



5, 21.846, 20.289

Inverse Universe

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



78, 43.370, 198.093



90, 49.330, 198.116



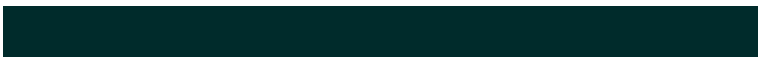
47, 63.829, 284.344



44, 4.240, 199.923



63, 36.555, 198.072



15, 14.376, 197.760

Previews

White Background



This preview shows how the CIELCh color 45, 91.553, 39.962 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, 91.553, 39.962 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, 91.553, 39.962

Background



This preview shows how black text looks on a background with the CIELCh color 45, 91.553, 39.962.



This preview shows how white text looks on a background with the CIELCh color 45, 91.553, 39.962.

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, 91.553, 39.962

Protanopia

46, 44.488, 95.692

Deuteranopia

46, 52.957, 84.122



Tritanopia
45, 89.911, 40.955

Trichromacy



Original Color
45, 91.553, 39.962

Protanomaly
41, 55.606, 54.211

Deuteranomaly
41, 64.232, 53.878

Tritanomaly
45, 90.745, 40.593

Monochromacy



Original Color
45, 91.553, 39.962

Achromatopsia
28, 0.004, 296.813

Achromatomaly
29, 38.326, 28.719

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 91.553, 39.962 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(215, 3, 1)` looks like.

```
.text, #text, p{  
    color:rgb(215, 3, 1)  
}
```

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(215, 3, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 3, 1) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 91.553, 39.962 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(215, 3, 1) }
```

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

```
.border{ border-color:rgb(215, 3, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 3, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 3, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(215, 3, 1); box-shadow:4px  
4px 4px 4px rgb(215, 3, 1) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 91.553, 39.962 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 3, 1) }
```

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

```
.background{ background-color: rgb(215, 3,  
1) }
```

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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