

Converting Colors

CIELCh(49, 88.045, 44.371)

Have a look what the booklet for
CIELCh(49, 88.045, 44.371) contains.

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Color

CIELCh(49, 87.877, 44.255)

Conversions

Conversions Part 1

Format	Color
Hex	DC3300
RGB	220, 51, 0
RGB Percent	86%, 20%, 0%
CMY	0.1371, 0.7998, 0.9998
CMYK	0.00, 0.77, 1.00, 0.14
HSL	14°, 100%, 43%
HSV	14°, 100%, 86%
XYZ	30.7144, 17.5941, 1.7784
YIQ	95.7170, 117.0950, 19.9670

Conversions

Conversions Part 2

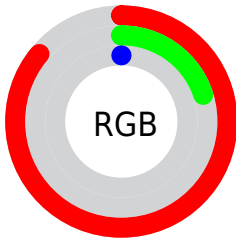
Format	Color
R _Y B	220, 66, 0
Decimal	14430976
CIE Lab	49.00, 62.94, 61.33
CIE LCh	49, 87.877, 44.255
Yxy	17.5941, 0.6132, 0.3513
Android (android.graphics.Color)	4292621056 (0xFFDC3300)
YUV	95.7170, -47.1885, 108.9962
Hunter-Lab	41.9453, 57.3022, 26.8480

Details

The CIELCh color **49, 87.877, 44.255** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **65, 40.286, 242.998**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **64, 75.621, 46.539**, and **32, 71.668, 39.584** is the 20% darker color. If you saturate the color by 10%, you get **49, 87.888, 44.257**, and if you desaturate by 10%, it is **51, 80.547, 44.564**.

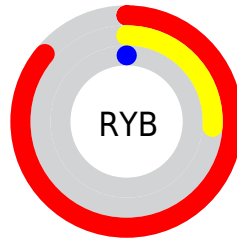
Distribution



Red (86%)

Green (20%)

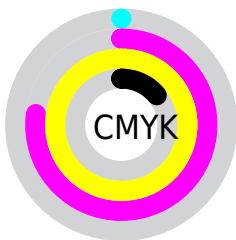
Blue (0%)



Red (86%)

Yellow (26%)

Blue (0%)

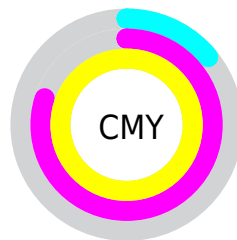


Cyan (0%)

Magenta (77%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (80%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 87.877, 44.255 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 49, 87.877, 44.255 by changing the saturation by 10% instead.

 49, 87.877, 44.255

 49, 87.877, 44.255

 100, 87.877,
44.255

 39, 87.877, 44.255

 69, 87.877, 44.255

 29, 87.877, 44.255

 79, 87.877, 44.255

 19, 87.877, 44.255

 89, 87.877, 44.255

 9, 87.877, 44.255

 99, 87.877, 44.255

 0, 87.877, 44.255

 49, 87.877, 44.255

 49, 87.877, 44.255

 49, 87.888, 44.257

 51, 80.547, 44.564

 54, 71.060, 44.232

■ 57, 60.661, 43.614

■ 61, 50.281, 43.056

■ 65, 40.331, 42.677

■ 69, 30.982, 42.491

■ 74, 22.291, 42.479

■ 78, 14.254, 42.605

■ 83, 6.836, 42.816

Harmonies

Complementary

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



49, 87.877, 44.255



65, 40.286, 242.998

Rectangle

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



49, 87.877, 44.255



49, 87.877, 94.255



49, 87.877, 224.255



49, 87.877, 274.255

Sweetspot

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



49, 87.874, 44.257



84, 25.167, 42.478



50, 87.295, 339.343



43, 17.476, 42.465



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 87.874, 44.257



56, 98.524, 44.038



69, 74.287, 80.042



44, 3.869, 42.827



39, 73.156, 44.696



7, 20.538, 33.411

Inverse Universe

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



65, 40.286, 242.998



74, 45.117, 243.417



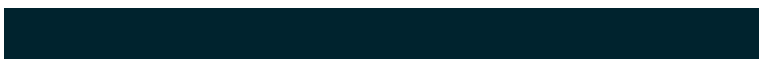
35, 95.402, 299.523



45, 3.655, 223.742



52, 33.613, 242.217



12, 13.164, 233.621

Previews

White Background



This preview shows how the CIELCh color 49, 87.877, 44.255 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 49, 87.877, 44.255 looks on a black 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

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

CIELCh 49, 87.877, 44.255

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.877, 44.255.



This preview shows how white text looks on a background with the CIELCh color 49, 87.877, 44.255.

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

49, 87.877, 44.255

Protanopia

49, 48.923, 95.712

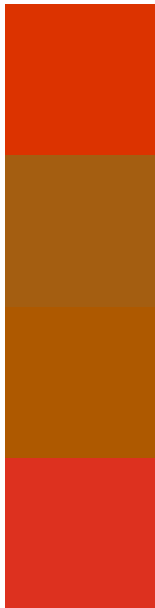
Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 77.814, 33.415

Trichromacy



Original Color
49, 87.877, 44.255

Protanomaly
47, 56.068, 65.369

Deuteranomaly
47, 63.658, 61.725

Tritanomaly
49, 82.251, 38.669

Monochromacy



Original Color
49, 87.877, 44.255

Achromatopsia
41, 0.006, 296.813

Achromatomaly
41, 32.378, 43.324

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.877, 44.255 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(220, 51, 0)` looks like.

```
.text, #text, p{  
    color:rgb(220, 51, 0)  
}
```

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(220, 51, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 51, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.877, 44.255 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(220, 51, 0) }
```

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

```
.border{ border-color:rgb(220, 51, 0) }
```

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

Here you see how a box with a 4 pixel rgb(220, 51, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 51, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 51, 0);  
box-shadow:4px 4px 4px 4px rgb(220, 51, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.877, 44.255 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 51, 0) }
```

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

```
.background{ background-color: rgb(220, 51,  
0) }
```

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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