

Converting Colors

CIELCh(45, 85.361, 33.388)

Have a look what the booklet for
CIELCh(45, 85.361, 33.388) contains.

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Color

CIELCh(45, 84.997, 33.560)

Conversions

Conversions Part 1

Format	Color
Hex	D70020
RGB	215, 0, 32
RGB Percent	84%, 0%, 13%
CMY	0.1570, 1.0000, 0.8746
CMYK	0.00, 1.00, 0.85, 0.16
HSL	351°, 100%, 42%
HSV	351°, 100%, 84%
XYZ	28.2703, 14.5417, 2.6811
YIQ	67.9330, 117.8680, 55.5320

Conversions

Conversions Part 2

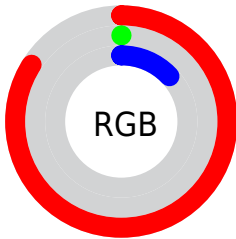
Format	Color
RYB	215, 0, 32
Decimal	14090272
CIELab	45.00, 70.83, 46.99
CIELCh	45, 84.997, 33.560
Yxy	14.5417, 0.6214, 0.3196
Android (android.graphics.Color)	4292280352 (0xFFD70020)
YUV	67.9330, -17.7150, 128.9778
Hunter-Lab	38.1336, 65.5968, 22.5250

Details

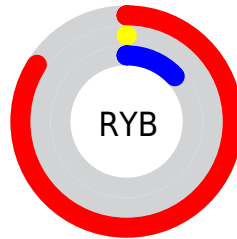
The CIELCh color **45, 84.997, 33.560** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **77, 51.342, 176.201**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 74.830, 33.068**, and **31, 69.814, 39.432** is the 20% darker color. If you saturate the color by 10%, you get **45, 84.989, 33.566**, and if you desaturate by 10%, it is **46, 78.779, 28.698**.

Distribution



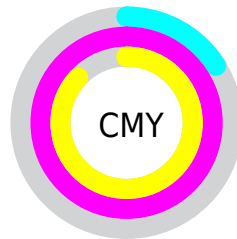
- Red (84%)
- Green (0%)
- Blue (13%)



- Red (84%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (16%)



- Cyan (16%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 84.997, 33.560 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, 84.997, 33.560 by changing the saturation by 10% instead.

 45, 84.997, 33.560

 45, 84.997, 33.560

 100, 84.997,
33.560

 35, 84.997, 33.560

 65, 84.997, 33.560

 25, 84.997, 33.560

 75, 84.997, 33.560

 15, 84.997, 33.560

 85, 84.997, 33.560

 5, 84.997, 33.560

 95, 84.997, 33.560

 0, 84.997, 33.560

 45, 84.997, 33.560

 45, 84.997, 33.560

 45, 84.989, 33.566

 46, 78.779, 28.698

 48, 71.611, 23.959

■ 51, 63.457, 19.932

■ 54, 54.497, 16.688

■ 59, 45.045, 14.127

■ 63, 35.447, 12.106

■ 69, 25.990, 10.493

■ 74, 16.870, 9.180

■ 80, 8.194, 8.073

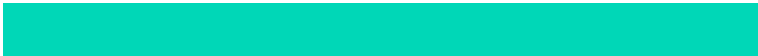
Harmonies

Complementary

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



45, 84.997, 33.560



77, 51.342, 176.201

Rectangle

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



45, 84.997, 33.560



45, 84.997, 83.560



45, 84.997, 213.560



45, 84.997, 263.560

Sweetspot

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



45, 84.989, 33.566



80, 29.876, 10.536



46, 102.849, 322.442



40, 20.592, 11.184



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, 84.989, 33.566



53, 97.212, 34.074



51, 81.162, 49.687



42, 4.629, 8.012



35, 70.990, 32.715



5, 21.995, 13.139

Inverse Universe

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



45, 84.989, 33.566



53, 97.212, 34.074



56, 47.273, 265.409



42, 4.629, 8.012



35, 70.990, 32.715



5, 21.995, 13.139

Previews

White Background



This preview shows how the CIELCh color 45, 84.997, 33.560 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, 84.997, 33.560 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, 84.997, 33.560

Background



This preview shows how black text looks on a background with the CIELCh color 45, 84.997, 33.560.



This preview shows how white text looks on a background with the CIELCh color 45, 84.997, 33.560.

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, 84.997, 33.560

Protanopia

46, 33.188, 96.403

Deuteranopia

46, 52.957, 84.122



Tritanopia
45, 90.334, 40.880

Trichromacy



Original Color
45, 84.997, 33.560

Protanomaly
40, 46.478, 42.585

Deuteranomaly
41, 61.711, 51.363

Tritanomaly
45, 88.644, 38.662

Monochromacy



Original Color
45, 84.997, 33.560

Achromatopsia
29, 0.005, 296.813

Achromatomaly
30, 36.607, 16.747

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 84.997, 33.560 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, 0, 32)` looks like.

```
.text, #text, p{  
    color:rgb(215, 0, 32)  
}
```

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, 0, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 0, 32) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 84.997, 33.560 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, 0, 32) }
```

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

```
.border{ border-color:rgb(215, 0, 32) }
```

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

Here you see how a box with a 4 pixel rgb(215, 0, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(215, 0, 32)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 84.997, 33.560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 0, 32) }
```

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

```
.background{ background-color: rgb(215, 0,  
32) }
```

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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