

# Converting Colors

CIELCh(53, 93.798, 30.487)

Have a look what the booklet for  
CIELCh(53, 93.798, 30.487) contains.

<b>CIELCh(53, 93.477, 30.768)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

**Color**

**CIELCh(53, 93.477, 30.768)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FD0032
RGB	253, 0, 50
RGB Percent	99%, 0%, 20%
CMY	0.0088, 1.0000, 0.8046
CMYK	0.00, 1.00, 0.80, 0.01
HSL	348°, 100%, 50%
HSV	348°, 100%, 99%
XYZ	40.9812, 21.0462, 4.9014
YIQ	81.3470, 134.7380, 69.1860

# Conversions

## Conversions Part 2

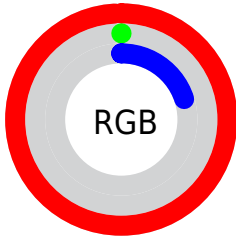
<b>Format</b>	<b>Color</b>
<b>RYB</b>	253, 0, 50
Decimal	16580658
CIELab	53.00, 80.32, 47.82
CIElCh	53, 93.477, 30.768
Yxy	21.0462, 0.6123, 0.3145
Android (android.graphics.Color)	4294770738 (0xFFFD0032)
YUV	81.3470, -15.4541, 150.5397
Hunter-Lab	45.8761, 79.1712, 25.7787

# Details

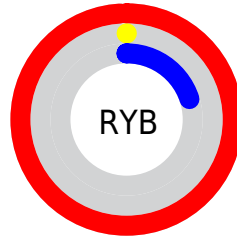
The CIELCh color **53, 93.477, 30.768** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **89, 61.834, 170.745**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 68.171, 28.224**, and **39, 81.075, 38.712** is the 20% darker color. If you saturate the color by 10%, you get **53, 93.435, 30.798**, and if you desaturate by 10%, it is **54, 87.160, 25.458**.

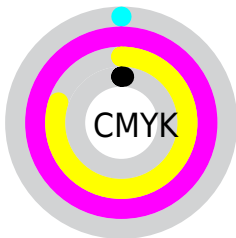
# Distribution



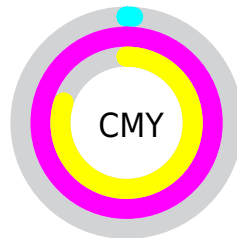
- Red (99%)
- Green (0%)
- Blue (20%)



- Red (99%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (1%)



- Cyan (1%)
- Magenta (100%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 53, 93.477, 30.768 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 53, 93.477, 30.768 by changing the saturation by 10% instead.



 53, 93.477, 30.768

 53, 93.477, 30.768

 100, 93.477,  
30.768

 43, 93.477, 30.768

 73, 93.477, 30.768

 33, 93.477, 30.768

 83, 93.477, 30.768

 23, 93.477, 30.768

 93, 93.477, 30.768

 13, 93.477, 30.768

 3, 93.477, 30.768

 0, 93.477, 30.768

 53, 93.477, 30.768

 53, 93.477, 30.768

 53, 93.435, 30.798

 54, 87.160, 25.458

 56, 79.891, 20.517

■ 59, 71.371, 16.404

■ 63, 61.728, 13.123

■ 68, 51.325, 10.539

■ 74, 40.588, 8.494

■ 80, 29.884, 6.850

■ 86, 19.467, 5.500

■ 93, 9.484, 4.352

# Harmonies

# Complementary

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



53, 93.477, 30.768



89, 61.834, 170.745

# Rectangle

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



53, 93.477, 30.768



53, 93.477, 80.768



53, 93.477, 210.768



53, 93.477, 260.768

# Sweetspot

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



53, 93.435, 30.798



80, 30.100, 6.852



51, 117.048, 320.569



40, 20.711, 7.504



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



53, 93.435, 30.798



53, 94.087, 30.825



58, 94.592, 46.793



50, 5.424, 4.298



40, 75.085, 29.807



10, 32.001, 18.876





# Inverse Universe

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



53, 93.435, 30.798



53, 94.087, 30.825



68, 49.095, 257.192



50, 5.424, 4.298



40, 75.085, 29.807



10, 32.001, 18.876



# Previews

## White Background



This preview shows how the CIELCh color 53, 93.477, 30.768 looks on a white 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

# Black Background



This preview shows how the CIE LCh color 53, 93.477, 30.768 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 53, 93.477, 30.768**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 53, 93.477, 30.768.



This preview shows how white text looks on a background with the CIELCh color 53, 93.477, 30.768.

# 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

53, 93.477, 30.768

### Protanopia

54, 29.425, 95.847

### Deuteranopia

53, 52.082, 82.121



**Tritanopia**  
53, 102.400, 40.748



# Trichromacy



**Original Color**  
53, 93.477, 30.768



**Protanomaly**  
47, 48.414, 35.231



**Deuteranomaly**  
48, 63.879, 45.341



**Tritanomaly**  
53, 100.107, 38.332

# Monochromacy



**Original Color**  
53, 93.477, 30.768



**Achromatopsia**  
34, 0.005, 296.813



**Achromatomaly**  
35, 41.161, 13.418

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 53, 93.477, 30.768 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(253, 0, 50)` looks like.

```
.text, #text, p{  
    color:rgb(253, 0, 50)  
}
```

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(253, 0, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 0, 50) }
```

## Border

The CSS property to change the border of an element to CIELCh 53, 93.477, 30.768 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(253, 0, 50) }
```

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

```
.border{ border-color:rgb(253, 0, 50) }
```

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

Here you see how a box with a 4 pixel rgb(253, 0, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 0, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 0, 50);  
box-shadow:4px 4px 4px 4px rgb(253, 0, 50)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 53, 93.477, 30.768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 0, 50) }
```

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

```
.background{ background-color: rgb(253, 0,  
50) }
```

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