

# Converting Colors

CIELCh(54, 91.521, 29.015)

Have a look what the booklet for  
CIELCh(54, 91.521, 29.015) contains.

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**Color**

**CIELCh(54, 91.462, 29.058)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF103A
RGB	255, 16, 58
RGB Percent	100%, 6%, 23%
CMY	0.0000, 0.9382, 0.7719
CMYK	0.00, 0.94, 0.77, 0.00
HSL	349°, 100%, 53%
HSV	349°, 94%, 100%
XYZ	42.2771, 21.9746, 6.0378
YIQ	92.2490, 128.9620, 63.7300

# Conversions

## Conversions Part 2

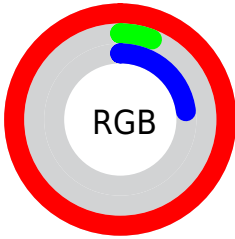
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 16, 58
Decimal	16715834
CIE Lab	54.00, 79.95, 44.42
CIE LCh	54, 91.462, 29.058
Yxy	21.9746, 0.6015, 0.3126
Android (android.graphics.Color)	4294905914 (0xFFFF103A)
YUV	92.2490, -16.8848, 142.7326
Hunter-Lab	46.8770, 78.9494, 25.1773

# Details

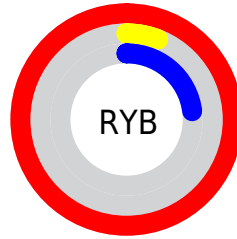
The CIELCh color **54, 91.462, 29.058** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **90, 59.472, 173.929**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 65.326, 25.538**, and **39, 79.947, 36.662** is the 20% darker color. If you saturate the color by 10%, you get **53, 95.369, 32.230**, and if you desaturate by 10%, it is **56, 84.171, 23.905**.

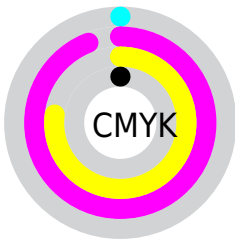
# Distribution



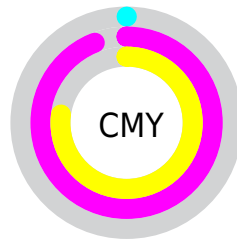
- Red (100%)
- Green (6%)
- Blue (23%)



- Red (100%)
- Yellow (6%)
- Blue (23%)



- Cyan (0%)
- Magenta (94%)
- Yellow (77%)
- Black (0%)



- Cyan (0%)
- Magenta (94%)
- Yellow (77%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 54, 91.462, 29.058 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 54, 91.462, 29.058 by changing the saturation by 10% instead.



 54, 91.462, 29.058

 54, 91.462, 29.058

 100, 91.462,  
29.058

 44, 91.462, 29.058

 74, 91.462, 29.058

 34, 91.462, 29.058

 84, 91.462, 29.058

 24, 91.462, 29.058

 94, 91.462, 29.058

 14, 91.462, 29.058

 4, 91.462, 29.058

 0, 91.462, 29.058

 54, 91.462, 29.058

 54, 91.462, 29.058

 53, 95.369, 32.230

 56, 84.171, 23.905

 58, 75.762, 19.456

62, 66.210, 15.842

67, 55.809, 12.986

72, 44.973, 10.738

78, 34.095, 8.948

84, 23.463, 7.499

91, 13.257, 6.292

97, 3.565, 5.170

# Harmonies

# Complementary

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



54, 91.462, 29.058



90, 59.472, 173.929

# Rectangle

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



54, 91.462, 29.058



54, 91.462, 79.058



54, 91.462, 209.058



54, 91.462, 259.058

# Sweetspot

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



54, 91.376, 29.042



81, 27.863, 8.070



53, 116.045, 321.463



41, 19.425, 8.711



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



54, 91.376, 29.042



53, 95.369, 32.230



61, 90.072, 48.584



50, 5.388, 5.820



40, 76.084, 31.249



10, 32.119, 19.828





# Inverse Universe

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



54, 91.376, 29.042



53, 95.369, 32.230



69, 48.989, 257.082



50, 5.388, 5.820



40, 76.084, 31.249



10, 32.119, 19.828



# Previews

## White Background



This preview shows how the CIELCh color 54, 91.462, 29.058 looks on a white background.

## Color Contrast Check

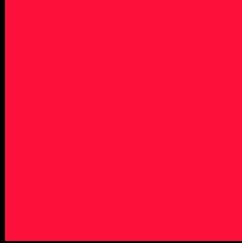
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 54, 91.462, 29.058 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 54, 91.462, 29.058

## Background



This preview shows how black text looks on a background with the CIELCh color 54, 91.462, 29.058.



This preview shows how white text looks on a background with the CIELCh color 54, 91.462, 29.058.

# 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

54, 91.400, 29.103

### Protanopia

54, 24.293, 96.657

### Deuteranopia

54, 48.427, 81.757



**Tritanopia**  
54, 99.529, 38.926



# Trichromacy



**Original Color**  
54, 91.400, 29.103

**Protanomaly**  
49, 44.335, 33.202

**Deuteranomaly**  
50, 60.057, 44.689

**Tritanomaly**  
54, 96.762, 36.120

# Monochromacy



**Original Color**  
54, 91.400, 29.103

**Achromatopsia**  
39, 0.006, 296.813

**Achromatomaly**  
39, 39.024, 12.939

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 54, 91.462, 29.058 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(255, 16, 58)` looks like.

```
.text, #text, p{  
    color:rgb(255, 16, 58)  
}
```

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(255, 16, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 16, 58) }
```

## Border

The CSS property to change the border of an element to CIELCh 54, 91.462, 29.058 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(255, 16, 58) }
```

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

```
.border{ border-color:rgb(255, 16, 58) }
```

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

Here you see how a box with a 4 pixel rgb(255, 16, 58) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 16, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 16, 58);  
box-shadow:4px 4px 4px 4px rgb(255, 16,  
58) }
```

# Background

The CSS property to change the background color of an element to CIELCh 54, 91.462, 29.058 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 16, 58) }
```

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

```
.background{ background-color: rgb(255, 16,  
58) }
```

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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