

# Converting Colors

CIELCh(54, 99.669, 37.616)

Have a look what the booklet for  
CIELCh(54, 99.669, 37.616) contains.

<b>CIELCh(54, 99.499, 37.678)</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(54, 99.499, 37.678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF1518
RGB	255, 21, 24
RGB Percent	100%, 8%, 9%
CMY	0.0000, 0.9166, 0.9042
CMYK	0.00, 0.92, 0.90, 0.00
HSL	359°, 100%, 54%
HSV	359°, 92%, 100%
XYZ	41.8795, 21.9746, 2.9213
YIQ	91.3080, 138.5010, 50.5410

# Conversions

## Conversions Part 2

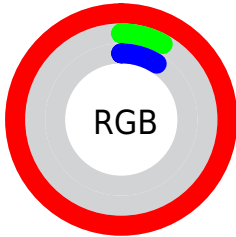
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 21, 24
Decimal	16717080
CIE <sub>Lab</sub>	54.00, 78.75, 60.82
CIE <sub>LCh</sub>	54, 99.499, 37.678
Yxy	21.9746, 0.6272, 0.3291
Android (android.graphics.Color)	4294907160 (0xFFFF1518)
YUV	91.3080, -33.1828, 143.5579
Hunter-Lab	46.8770, 77.4354, 29.1191

# Details

The CIELCh color **54, 99.499, 37.678** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **91, 50.076, 194.485**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 72.651, 38.703**, and **39, 83.161, 40.000** is the 20% darker color. If you saturate the color by 10%, you get **53, 104.040, 39.628**, and if you desaturate by 10%, it is **56, 90.263, 34.120**.

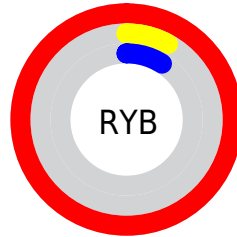
# Distribution



Red (100%)

Green (8%)

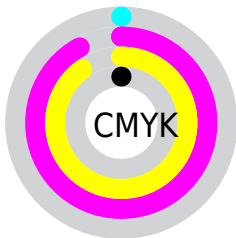
Blue (9%)



Red (100%)

Yellow (8%)

Blue (9%)

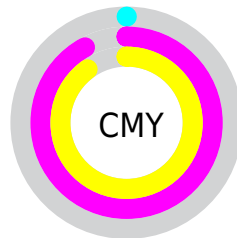


Cyan (0%)

Magenta (92%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (92%)

Yellow (90%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 54, 99.499, 37.678 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, 99.499, 37.678 by changing the saturation by 10% instead.



 54, 99.499, 37.678

 54, 99.499, 37.678

 100, 99.499,  
37.678

 44, 99.499, 37.678

 74, 99.499, 37.678

 34, 99.499, 37.678

 84, 99.499, 37.678

 24, 99.499, 37.678

 94, 99.499, 37.678


 14, 99.499, 37.678

 4, 99.499, 37.678

 0, 99.499, 37.678

 54, 99.499, 37.678

 54, 99.499, 37.678

 53, 104.040,  
39.628

 56, 90.263, 34.120

 58, 79.242, 30.424

62, 67.382, 27.222

67, 55.265, 24.657

73, 43.308, 22.669

79, 31.816, 21.143

85, 20.973, 19.966

92, 10.860, 19.036

99, 1.486, 17.948

# Harmonies

# Complementary

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



54, 99.499, 37.678



91, 50.076, 194.485

# Rectangle

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



54, 99.499, 37.678



54, 99.499, 87.678



54, 99.499, 217.678



54, 99.499, 267.678

# Sweetspot

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



54, 99.315, 37.670



82, 26.678, 20.558



60, 113.986, 327.560



41, 18.203, 20.980



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, 99.315, 37.670



53, 104.040, 39.628



68, 81.840, 60.797



49, 5.252, 18.855



40, 83.617, 39.469



10, 33.255, 26.641





# Inverse Universe

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



54, 99.315, 37.670



53, 104.040, 39.628



59, 65.335, 279.466



49, 5.252, 18.855



40, 83.617, 39.469



10, 33.255, 26.641



# Previews

## White Background



This preview shows how the CIELCh color 54, 99.499, 37.678 looks on a white background.

## Color Contrast Check

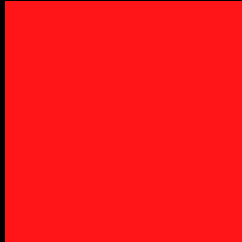
Large Text (above 18pt) WCAG AA ✓ Pass

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, 99.499, 37.678 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, 99.499, 37.678**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 54, 99.499, 37.678.



This preview shows how white text looks on a background with the CIELCh color 54, 99.499, 37.678.

# 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, 99.426, 37.729

### Protanopia

54, 46.021, 95.638

### Deuteranopia

54, 60.115, 84.041



**Tritanopia**  
54, 102.225, 40.051



# Trichromacy



**Original Color**  
54, 99.426, 37.729

**Protanomaly**  
49, 57.774, 52.708

**Deuteranomaly**  
50, 70.406, 54.664

**Tritanomaly**  
54, 101.433, 39.372

# Monochromacy



**Original Color**  
54, 99.426, 37.729

**Achromatopsia**  
39, 0.006, 296.813

**Achromatomaly**  
39, 39.605, 25.403

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 54, 99.499, 37.678 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, 21, 24)` looks like.

```
.text, #text, p{  
    color:rgb(255, 21, 24)  
}
```

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, 21, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 21, 24) }
```

## Border

The CSS property to change the border of an element to CIELCh 54, 99.499, 37.678 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, 21, 24) }
```

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

```
.border{ border-color:rgb(255, 21, 24) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 21, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 21, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 21, 24);  
box-shadow:4px 4px 4px 4px rgb(255, 21,  
24) }
```

# Background

The CSS property to change the background color of an element to CIELCh 54, 99.499, 37.678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 21, 24) }
```

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

```
.background{ background-color: rgb(255, 21,  
24) }
```

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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