

# Converting Colors

CIELCh(56, 80.094, 34.763)

Have a look what the booklet for  
CIELCh(56, 80.094, 34.763) contains.

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**Color**

**CIELCh(56, 80.065, 34.705)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5453B
RGB	245, 69, 59
RGB Percent	96%, 27%, 23%
CMY	0.0401, 0.7303, 0.7693
CMYK	0.00, 0.72, 0.76, 0.04
HSL	3°, 90%, 60%
HSV	3°, 76%, 96%
XYZ	40.4731, 23.9124, 6.5971
YIQ	120.4840, 108.1060, 34.2020

# Conversions

## Conversions Part 2

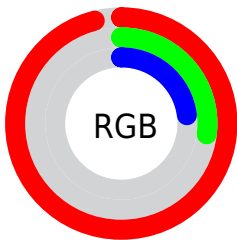
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 70, 59
Decimal	16074043
CIE <sub>Lab</sub>	56.00, 65.82, 45.59
CIE <sub>LCh</sub>	56, 80.065, 34.705
Y <sub>xy</sub>	23.9124, 0.5702, 0.3369
Android (android.graphics.Color)	4294264123 (0xFFFF5453B)
YUV	120.4840, -30.3116, 109.2005
Hunter-Lab	48.9003, 62.1626, 26.2314

# Details

The CIELCh color **56, 80.065, 34.705** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **85, 42.880, 203.816**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 57.526, 36.019**, and **37, 77.258, 36.832** is the 20% darker color. If you saturate the color by 10%, you get **53, 90.689, 37.574**, and if you desaturate by 10%, it is **60, 68.421, 31.994**.

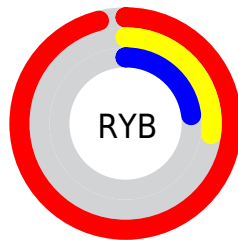
# Distribution



Red (96%)

Green (27%)

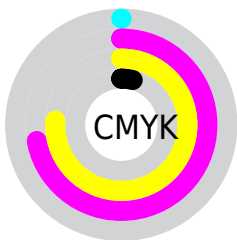
Blue (23%)



Red (96%)

Yellow (27%)

Blue (23%)

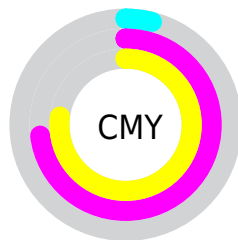


Cyan (0%)

Magenta (72%)

Yellow (76%)

Black (4%)



Cyan (4%)

Magenta (73%)

Yellow (77%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 56, 80.065, 34.705 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 56, 80.065, 34.705 by changing the saturation by 10% instead.



 56, 80.065, 34.705

 56, 80.065, 34.705

 100, 80.065,  
34.705

 46, 80.065, 34.705

 76, 80.065, 34.705

 36, 80.065, 34.705

 86, 80.065, 34.705

 26, 80.065, 34.705

 96, 80.065, 34.705

 16, 80.065, 34.705

 6, 80.065, 34.705

 0, 80.065, 34.705

 56, 80.065, 34.705

 56, 80.065, 34.705

 53, 90.689, 37.574

 60, 68.421, 31.994

 52, 98.504, 39.712

 64, 56.591, 29.741

51, 100.716,  
40.404

69, 45.011, 27.978

74, 33.951, 26.637

80, 23.563, 25.629

86, 13.909, 24.870

93, 4.988, 24.242

99, 3.241, 204.173

99, 3.538, 199.368

# Harmonies

# Complementary

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



56, 80.065, 34.705



85, 42.880, 203.816

# Rectangle

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



56, 80.065, 34.705



56, 80.065, 84.705



56, 80.065, 214.705



56, 80.065, 264.705

# Sweetspot

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



56, 80.062, 34.707



85, 21.325, 25.386



60, 99.102, 329.674



43, 14.978, 25.691



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



56, 80.062, 34.707



55, 98.304, 38.866



73, 66.859, 69.990



48, 4.823, 24.464



39, 81.809, 40.558



9, 29.892, 27.848





# Inverse Universe

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



85, 42.880, 203.816



88, 46.335, 204.759



59, 59.152, 279.224



50, 4.535, 203.857



65, 36.860, 205.322



20, 16.527, 204.059



# Previews

## White Background



This preview shows how the CIELCh color 56, 80.065, 34.705 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 56, 80.065, 34.705 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 56, 80.065, 34.705

## Background



This preview shows how black text looks on a background with the CIELCh color 56, 80.065, 34.705.



This preview shows how white text looks on a background with the CIELCh color 56, 80.065, 34.705.

# 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

56, 80.065, 34.705

### Protanopia

56, 31.846, 96.561

### Deuteranopia

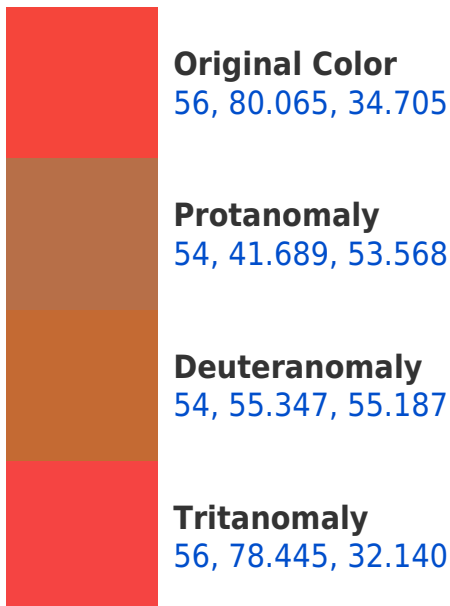
56, 48.940, 81.714



**Tritanopia**  
56, 77.671, 30.501



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 56, 80.065, 34.705 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(245, 69, 59)` looks like.

```
.text, #text, p{  
    color:rgb(245, 69, 59)  
}
```

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(245, 69, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 69, 59) }
```

## Border

The CSS property to change the border of an element to CIELCh 56, 80.065, 34.705 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(245, 69, 59) }
```

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

```
.border{ border-color:rgb(245, 69, 59) }
```

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

Here you see how a box with a 4 pixel rgb(245, 69, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 69, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 69, 59);  
box-shadow:4px 4px 4px 4px rgb(245, 69,  
59) }
```

# Background

The CSS property to change the background color of an element to CIELCh 56, 80.065, 34.705 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 69, 59) }
```

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

```
.background{ background-color: rgb(245, 69,  
59) }
```

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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