

# Converting Colors

CIELCh(51, 70.924, 20.121)

Have a look what the booklet for  
CIELCh(51, 70.924, 20.121) contains.

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# Color

**CIELCh(51, 70.905, 20.219)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E23554
RGB	226, 53, 84
RGB Percent	89%, 21%, 33%
CMY	0.1150, 0.7935, 0.6715
CMYK	0.00, 0.77, 0.63, 0.11
HSL	349°, 75%, 55%
HSV	349°, 77%, 89%
XYZ	34.1130, 19.2686, 10.2604
YIQ	108.2610, 93.1570, 46.3170

# Conversions

## Conversions Part 2

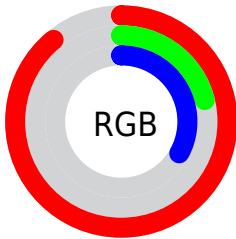
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	226, 53, 84
Decimal	14824788
CIE Lab	51.00, 66.54, 24.51
CIE LCh	51, 70.905, 20.219
Yxy	19.2686, 0.5360, 0.3028
Android (android.graphics.Color)	4293014868 (0xFFE23554)
YUV	108.2610, -11.9607, 103.2571
Hunter-Lab	43.8960, 61.8999, 16.8686

# Details

The CIELCh color **51, 70.905, 20.219** is a dark color, and the websafe version is hex **FF3366**. The color can be described as dark washed red. A complement of this color would be **81, 49.674, 176.526**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 57.681, 16.607**, and **34, 64.352, 25.267** is the 20% darker color. If you saturate the color by 10%, you get **49, 78.228, 24.825**, and if you desaturate by 10%, it is **54, 62.508, 16.440**.

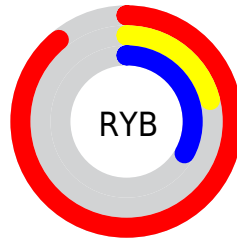
# Distribution



Red (89%)

Green (21%)

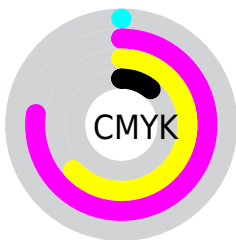
Blue (33%)



Red (89%)

Yellow (21%)

Blue (33%)

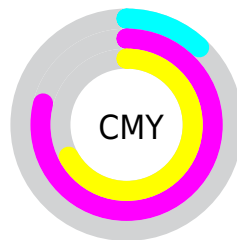


Cyan (0%)

Magenta (77%)

Yellow (63%)

Black (11%)



Cyan (12%)

Magenta (79%)

Yellow (67%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 70.905, 20.219 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 51, 70.905, 20.219 by changing the saturation by 10% instead.



 51, 70.905, 20.219

 51, 70.905, 20.219

 100, 70.905,  
20.219

 41, 70.905, 20.219

 71, 70.905, 20.219

 31, 70.905, 20.219

 81, 70.905, 20.219

 21, 70.905, 20.219

 91, 70.905, 20.219

 11, 70.905, 20.219

 1, 70.905, 20.219

 0, 70.905, 20.219

 51, 70.905, 20.219

 51, 70.905, 20.219

 49, 78.228, 24.825

 54, 62.508, 16.440

 48, 84.490, 30.022

 58, 53.262, 13.435

47, 86.487, 31.676

63, 43.525, 11.067

68, 33.660, 9.187

74, 23.955, 7.668

80, 14.595, 6.412

86, 5.678, 5.314

92, 2.757, 184.737

98, 10.349,  
185.582

# Harmonies

# Complementary

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



51, 70.905, 20.219



81, 49.674, 176.526

# Rectangle

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



51, 70.905, 20.219



51, 70.905, 70.219



51, 70.905, 200.219



51, 70.905, 250.219

# Sweetspot

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



51, 70.902, 20.221



85, 22.620, 7.202



51, 96.533, 321.894



43, 15.796, 7.686



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



51, 70.902, 20.221



54, 90.016, 27.887



59, 66.315, 49.961



44, 4.854, 5.615



37, 71.164, 30.727



6, 25.283, 13.334





# Inverse Universe

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



51, 70.902, 20.221



54, 90.016, 27.887



66, 39.447, 248.925



44, 4.854, 5.615



37, 71.164, 30.727



6, 25.283, 13.334



# Previews

## White Background



This preview shows how the CIELCh color 51, 70.905, 20.219 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 51, 70.905, 20.219 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 51, 70.905, 20.219

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 70.905, 20.219.



This preview shows how white text looks on a background with the CIELCh color 51, 70.905, 20.219.

# 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

51, 70.905, 20.219

### Protanopia

51, 5.464, 91.881

### Deuteranopia

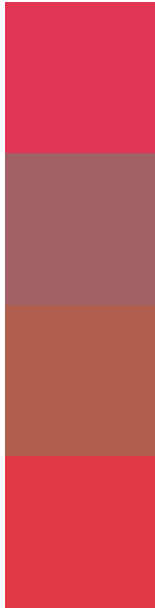
51, 28.463, 76.707



**Tritanopia**  
51, 74.294, 31.247



# Trichromacy



**Original Color**  
51, 70.905, 20.219

**Protanomaly**  
48, 28.288, 17.454

**Deuteranomaly**  
49, 39.753, 37.206

**Tritanomaly**  
51, 72.602, 27.241

# Monochromacy



**Original Color**  
51, 70.905, 20.219

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 27.798, 10.258

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 70.905, 20.219 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(226, 53, 84)` looks like.

```
.text, #text, p{  
    color:rgb(226, 53, 84)  
}
```

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(226, 53, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 53, 84) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 70.905, 20.219 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(226, 53, 84) }
```

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

```
.border{ border-color:rgb(226, 53, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 53, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 53, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 53, 84);  
box-shadow:4px 4px 4px 4px rgb(226, 53,  
84) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 70.905, 20.219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 53, 84) }
```

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

```
.background{ background-color: rgb(226, 53,  
84) }
```

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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