

# Converting Colors

XYZ(43.6851, 24.1322, 8.9666)

Have a look what the booklet for  
XYZ(43.6851, 24.1322, 8.9666)  
contains.

<b>XYZ(43.6938, 24.1357, 9.0123)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(43.6938, 24.1357,  
9.0123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF334B
RGB	255, 51, 75
RGB Percent	100%, 20%, 29%
CMY	0.0000, 0.7999, 0.7059
CMYK	0.00, 0.80, 0.71, 0.00
HSL	353°, 100%, 60%
HSV	353°, 80%, 100%
XYZ	43.6938, 24.1357, 9.0123
YIQ	114.7320, 113.8800, 50.7120

# Conversions

## Conversions Part 2

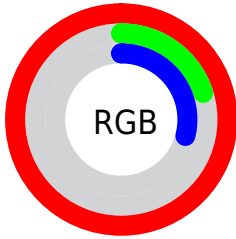
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 51, 75
Decimal	16724811
CIE <sub>Lab</sub>	56.22, 74.58, 37.36
CIE <sub>LCh</sub>	56, 83.417, 26.609
Yxy	24.1357, 0.5686, 0.3141
Android (android.graphics.Color)	4294914891 (0xFFFF334B)
YUV	114.7320, -19.5879, 123.0150
Hunter-Lab	49.1281, 72.7811, 23.5132

# Details

The XYZ color **43.6938, 24.1357, 9.0123** 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 **51.5523, 77.9943, 87.9520**, and the grayscale version is **16.2504, 17.0967, 18.6183**.

A 20% lighter version of the original color is **51.2394, 35.4378, 23.2084**, and **21.4825, 11.0461, 2.2962** is the 20% darker color. If you saturate the color by 10%, you get **42.2296, 22.2300, 5.3730**, and if you desaturate by 10%, it is **46.0412, 27.3730, 14.2893**.

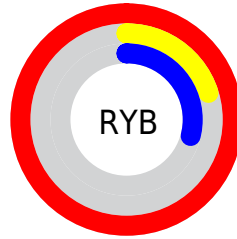
# Distribution



Red (100%)

Green (20%)

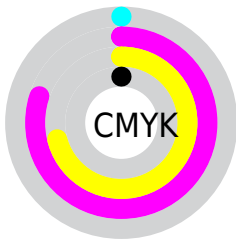
Blue (29%)



Red (100%)

Yellow (20%)

Blue (29%)

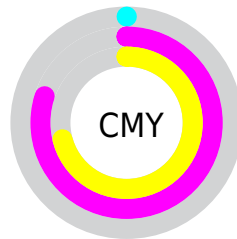


Cyan (0%)

Magenta (80%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (80%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 43.6938, 24.1357, 9.0123 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 XYZ color 43.6938, 24.1357, 9.0123 by changing the saturation by 10% instead.





 43.6938, 24.1357,  
9.0123


 43.6938, 24.1357,  
9.0123


352.3306,  
273.5058, 193.6911

 30.6267, 15.4343,  
4.6523


 80.0060, 50.2516,  
24.4985

 20.4652, 9.1248,  
1.9896


 103.9818, 68.4348,  
36.4617

 12.8439, 4.8227,  
0.5489


 132.3246, 90.5475,  
51.7964

 7.3974, 2.1436,  
0.0000


 165.3998,  
116.9740, 70.9211

 3.7604, 0.6890,  
0.0000

 203.5726,  
148.0986, 94.2544

 1.5675, 0.0000,  
0.0000

247.2084,

 0.3711, 0.0000,

184.3059, 122.2148

0.0000

296.6727,  
225.9802, 155.2209

■ 0.0000, 0.0000,  
0.0000

■ 43.6938, 24.1357,  
9.0123

■ 43.6938, 24.1357,  
9.0123

■ 42.2296, 22.2300,  
5.3730

■ 46.0412, 27.3730,  
14.2893

■ 41.4742, 21.3540,  
3.1638

■ 49.3833, 32.1225,  
21.3681

■ 41.4737, 21.3535,  
3.1626

■ 53.8168, 38.5412,  
30.3937

■ 59.4263, 46.7654,  
41.4958

■ 66.2879, 56.9172,  
54.7930

■ 74.4714, 69.1082,  
70.3949

■ 84.0414, 83.4414,  
88.4038

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.7123, 24.1357, 29.5294



43.6938, 24.1357, 9.0123



34.6597, 24.1357, 2.2491

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



43.6938, 24.1357, 9.0123



10.7311, 24.1357, 6.6125



21.8666, 24.1357, 122.1159

# Complementary

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



43.6938, 24.1357, 9.0123



51.5523, 77.9943, 87.9520

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



14.2143, 24.1357, 99.6375



43.6938, 24.1357, 9.0123



9.0166, 24.1357, 23.2776

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



43.6938, 24.1357, 9.0123



15.6322, 24.1357, 1.6952



10.0870, 24.1357, 57.7421



32.2309, 24.1357, 107.4287



# Rectangle

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



43.6938, 24.1357, 9.0123



27.4818, 24.1357, 1.1106



10.0870, 24.1357, 57.7421



18.9288, 24.1357, 118.4129

# Sweetspot

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



43.6943, 24.1372, 9.0127



71.0293, 63.9714, 63.8593



51.1666, 26.0509, 96.9385



14.5874, 12.7756, 12.4931



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



43.6943, 24.1372, 9.0127



41.7166, 21.6278, 3.8936



49.2745, 36.3727, 7.5578



18.0962, 18.0218, 19.1238



21.6983, 11.1686, 1.7959



2.1392, 1.0981, 0.3144



# Inverse Universe

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



43.6943, 24.1372, 9.0127



41.7166, 21.6278, 3.8936



35.7790, 40.6502, 100.5675



18.0962, 18.0218, 19.1238



21.6983, 11.1686, 1.7959



2.1392, 1.0981, 0.3144



# Previews

## White Background



This preview shows how the XYZ color 43.6938, 24.1357, 9.0123 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

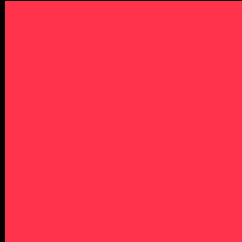
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 43.6938, 24.1357, 9.0123 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](#).

**XYZ 43.6938, 24.1357, 9.0123**

## **Background**



This preview shows how black text looks on a background with the XYZ color 43.6938, 24.1357, 9.0123.



This preview shows how white text looks on a background with the XYZ color 43.6938, 24.1357,



# 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

43.6938, 24.1357, 9.0123

### Protanopia

22.7154, 24.2772, 16.8533

### Deuteranopia

24.6838, 24.2749, 8.0872



## Tritanopia

42.9288, 24.0790, 5.9995

# Trichromacy



## Original Color

43.6938, 24.1357, 9.0123

## Protanomaly

26.7379, 20.8991, 13.2144

## Deuteranomaly

29.2200, 21.8547, 7.9885

## Tritanomaly

43.0617, 24.0570, 6.9313

# Monochromacy



## Original Color

43.6938, 24.1357, 9.0123

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

21.8533, 16.6814, 14.1246

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 43.6938, 24.1357, 9.0123 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, 51, 75)` looks like.

```
.text, #text, p{  
    color:rgb(255, 51, 75)  
}
```

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, 51, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 51, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 43.6938, 24.1357, 9.0123 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, 51, 75) }
```



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

```
.border{ border-color:rgb(255, 51, 75) }
```

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

Here you see how a box with a 4 pixel rgb(255, 51, 75) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 51, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 51, 75);  
box-shadow:4px 4px 4px 4px rgb(255, 51,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 43.6938, 24.1357, 9.0123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 51, 75) }
```

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

```
.background{ background-color: rgb(255, 51,  
75) }
```

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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