

# Converting Colors

XYZ(38.9168, 23.9876, 9.9954)

Have a look what the booklet for  
XYZ(38.9168, 23.9876, 9.9954)  
contains.

<b>XYZ(38.7277, 23.8462, 9.9587)</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(38.7277, 23.8462,  
9.9587)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC4E4F
RGB	236, 78, 79
RGB Percent	93%, 31%, 31%
CMY	0.0745, 0.6941, 0.6902
CMYK	0.00, 0.67, 0.67, 0.07
HSL	360°, 81%, 62%
HSV	360°, 67%, 93%
XYZ	38.7277, 23.8462, 9.9587
YIQ	125.3560, 93.8470, 33.8070

# Conversions

## Conversions Part 2

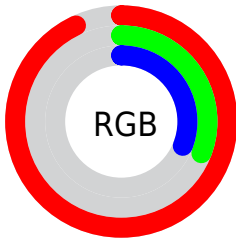
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	236, 78, 79
Decimal	15486543
CIE <sub>Lab</sub>	55.93, 60.62, 33.91
CIE <sub>LCh</sub>	56, 69.462, 29.223
Yxy	23.8462, 0.5339, 0.3288
Android (android.graphics.Color)	4293676623 (0xFFEC4E4F)
YUV	125.3560, -22.8535, 97.0348
Hunter-Lab	48.8326, 56.1062, 22.0915

# Details

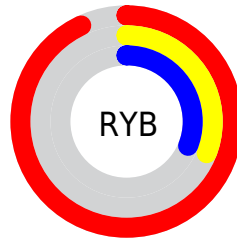
The XYZ color **38.7277, 23.8462, 9.9587** is a dark color, and the websafe version is hex **FF6666**. The color can be described as dark muted red. A complement of this color would be **48.1348, 67.6093, 89.1174**, and the grayscale version is **19.6669, 20.6911, 22.5326**.

A 20% lighter version of the original color is **53.8003, 40.1465, 25.3355**, and **17.5223, 8.9997, 2.3270** is the 20% darker color. If you saturate the color by 10%, you get **36.6330, 20.7906, 5.7660**, and if you desaturate by 10%, it is **41.7258, 28.2275, 15.9376**.

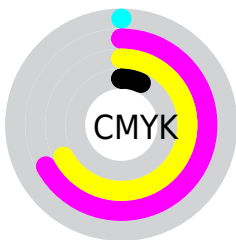
# Distribution



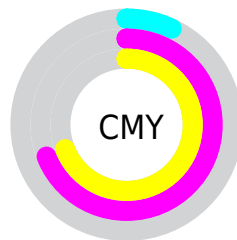
- Red (93%)
- Green (31%)
- Blue (31%)



- Red (93%)
- Yellow (31%)
- Blue (31%)



- Cyan (0%)
- Magenta (67%)
- Yellow (67%)
- Black (7%)




- Cyan (7%)
- Magenta (69%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7277, 23.8462, 9.9587 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 38.7277, 23.8462, 9.9587 by changing the saturation by 10% instead.




 38.7277, 23.8462,  
9.9587


 38.7277, 23.8462,  
9.9587

331.9585,  
272.0420, 200.8511


 26.7277, 15.2196,  
5.2663


 72.5189, 49.7791,  
26.3244

 17.5044, 8.9736,  
2.3429


 95.0408, 67.8542,  
38.8348

 10.6923, 4.7240,  
0.7551


 121.8008, 89.8475,  
54.7883

 5.9261, 2.0862,  
0.0000

 153.1641,  
116.1435, 74.6034

 2.8404, 0.6569,  
0.0000

 189.4962,  
147.1266, 98.6988

 1.0699, 0.0000,  
0.0000

231.1624,

 0.0000, 0.0000,

183.1811, 127.4928

0.0000

278.5281,  
224.6914, 161.4041

■ 38.7277, 23.8462,  
9.9587

■ 38.7277, 23.8462,  
9.9587

■ 36.6330, 20.7906,  
5.7660

■ 41.7258, 28.2275,  
15.9376

■ 35.3389, 18.9077,  
3.1604

■ 45.7119, 34.0573,  
23.8709


■ 34.7174, 18.0082,  
1.8943


■ 50.7627, 41.4491,  
33.9084


■ 34.5999, 17.8360,  
1.6615

■ 56.9469, 50.5041,  
46.1851

■ 64.3276, 61.3147,  
60.8250

 72.9631, 73.9670,  
77.9426

 82.9080, 88.5409,  
97.6453

 88.4018, 96.5727,  
108.5889

# Harmonies

## Analogous

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



41.5632, 23.8462, 26.5602



38.7277, 23.8462, 9.9587



31.3873, 23.8462, 3.6257

# Triad

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



38.7277, 23.8462, 9.9587



11.9350, 23.8462, 9.4278



22.4593, 23.8462, 98.5753

# Complementary

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



38.7277, 23.8462, 9.9587



48.1348, 67.6093, 89.1174

# 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.



15.7299, 23.8462, 84.3753



38.7277, 23.8462, 9.9587



10.5908, 23.8462, 25.3776

# Square

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



38.7277, 23.8462, 9.9587



16.0119, 23.8462, 3.4689



11.8008, 23.8462, 53.6179



30.9451, 23.8462, 85.6792



# Rectangle

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



38.7277, 23.8462, 9.9587



25.6343, 23.8462, 2.3630



11.8008, 23.8462, 53.6179



19.9345, 23.8462, 96.7243

# Sweetspot

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



38.7283, 23.8476, 9.9591



73.7703, 68.8207, 66.7234



51.5893, 28.8917, 82.2138



15.2545, 13.9462, 13.2196



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.



38.7283, 23.8476, 9.9591



43.0499, 23.8781, 5.6217



47.5844, 41.6171, 12.7347



15.0693, 15.0556, 15.6504



19.0740, 9.8323, 0.9251



1.4991, 0.7726, 0.0797



# Inverse Universe

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



38.7283, 23.8476, 9.9591



43.0499, 23.8781, 5.6217



30.7912, 32.6926, 84.0436



15.0693, 15.0556, 15.6504



19.0740, 9.8323, 0.9251



1.4991, 0.7726, 0.0797



# Previews

## White Background



This preview shows how the XYZ color 38.7277, 23.8462, 9.9587 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 38.7277, 23.8462, 9.9587 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 38.7277, 23.8462, 9.9587**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7277, 23.8462, 9.9587.



This preview shows how white text looks on a background with the XYZ color 38.7277, 23.8462,

9.9587.

# 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

38.7277, 23.8462, 9.9587

### Protanopia

22.3757, 23.9191, 15.7494

### Deuteranopia

24.3417, 23.8799, 9.1207



## Tritanopia

38.8395, 23.8908, 10.5470

# Trichromacy



## Original Color

38.7277, 23.8462, 9.9587

## Protanomaly

26.1246, 22.1721, 13.2586

## Deuteranomaly

28.2644, 22.7093, 9.1970

## Tritanomaly

38.8017, 23.8757, 10.3480

# Monochromacy



## Original Color

38.7277, 23.8462, 9.9587

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

23.5864, 19.8072, 16.7674

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7277, 23.8462, 9.9587 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(236, 78, 79)` looks like.

```
.text, #text, p{  
    color:rgb(236, 78, 79)  
}
```

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(236, 78, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 78, 79) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7277, 23.8462, 9.9587 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(236, 78, 79) }
```



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

```
.border{ border-color:rgb(236, 78, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 78, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 78, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 78, 79);  
box-shadow:4px 4px 4px 4px rgb(236, 78,  
79) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7277, 23.8462, 9.9587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 78, 79) }
```

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

```
.background{ background-color: rgb(236, 78,  
79) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor