

# Converting Colors

XYZ(38.1520, 20.1443, 13.3189)

Have a look what the booklet for  
XYZ(38.1520, 20.1443, 13.3189)  
contains.

<b>XYZ(38.2912, 20.2125, 13.4385)</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(38.2912, 20.2125,  
13.4385)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EF1F62
RGB	239, 31, 98
RGB Percent	94%, 12%, 38%
CMY	0.0627, 0.8783, 0.6157
CMYK	0.00, 0.87, 0.59, 0.06
HSL	341°, 87%, 53%
HSV	341°, 87%, 94%
XYZ	38.2912, 20.2125, 13.4385
YIQ	100.8300, 102.4610, 64.9330

# Conversions

## Conversions Part 2

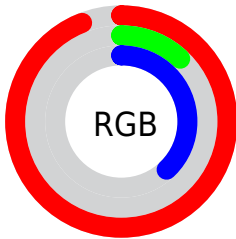
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	239, 31, 98
Decimal	15671138
CIE <sub>Lab</sub>	52.08, 75.85, 17.80
CIE <sub>LCh</sub>	52, 77.907, 13.205
Yxy	20.2125, 0.5322, 0.2810
Android (android.graphics.Color)	4293861218 (0xFFEF1F62)
YUV	100.8300, -1.3952, 121.1751
Hunter-Lab	44.9583, 73.3522, 13.7484

# Details

The XYZ color **38.2912, 20.2125, 13.4385** is a dark color, and the websafe version is hex **FF3366**. The color can be described as dark washed rose. A complement of this color would be **38.8808, 65.0039, 49.5392**, and the grayscale version is **12.3138, 12.9551, 14.1081**.

A 20% lighter version of the original color is **51.5356, 33.2987, 31.7280**, and **18.2990, 9.3619, 4.0914** is the 20% darker color. If you saturate the color by 10%, you get **37.1891, 19.1114, 9.6710**, and if you desaturate by 10%, it is **40.0079, 22.2954, 18.1752**.

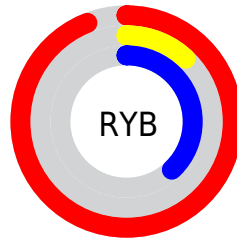
# Distribution



Red (94%)

Green (12%)

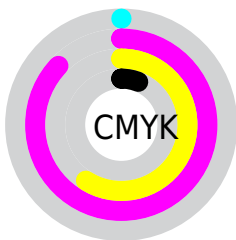
Blue (38%)



Red (94%)

Yellow (12%)

Blue (38%)

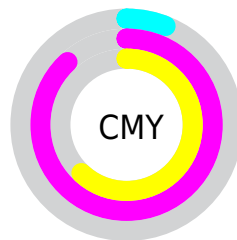


Cyan (0%)

Magenta (87%)

Yellow (59%)

Black (6%)



Cyan (6%)

Magenta (88%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.2912, 20.2125, 13.4385 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 38.2912, 20.2125, 13.4385 by changing the saturation by 10% instead.





 38.2912, 20.2125,  
13.4385


 38.2912, 20.2125,  
13.4385


330.1268,  
253.0632, 225.0148

 26.3870, 12.5496,  
7.5969


 71.8553, 43.7732,  
32.7920


 17.2476, 7.1191,  
3.7541


 94.2459, 60.4397,  
47.1410


 10.5076, 3.5367,  
1.4914


 120.8627, 80.8763,  
65.1629

 5.8016, 1.4179,  
0.2115

 152.0710,  
105.4673, 87.2763

 2.7643, 0.2299,  
0.0000

 188.2362,  
134.5971, 113.8996

 1.0304, 0.0000,  
0.0000

229.7237,

 0.0000, 0.0000,

168.6501, 145.4514

0.0000

276.8988,  
208.0106, 182.3503

■ 38.2912, 20.2125,  
13.4385

■ 38.2912, 20.2125,  
13.4385

■ 37.1891, 19.1114,  
9.6710

■ 40.0079, 22.2954,  
18.1752

■ 36.9349, 18.8860,  
8.7138

■ 42.4364, 25.5399,  
23.9556

■ 45.6552, 30.0907,  
30.8454

■ 49.7315, 36.0701,  
38.9037

■ 54.7249, 43.5862,  
48.1852

60.6897, 52.7368,  
58.7406

67.6756, 63.6113,  
70.6177

75.7289, 76.2928,  
83.8616

84.8931, 90.8587,  
98.5153

# Harmonies

## Analogous

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



37.8995, 20.2125, 37.2550



38.2912, 20.2125, 13.4385



32.6630, 20.2125, 3.5742

# Triad

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



38.2912, 20.2125, 13.4385



10.5243, 20.2125, 3.0268



15.1203, 20.2125, 96.2683

# Complementary

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



38.2912, 20.2125, 13.4385



38.8808, 65.0039, 49.5392

# 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.



10.0769, 20.2125, 67.7080



38.2912, 20.2125, 13.4385



7.9702, 20.2125, 11.6184

# Square

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



38.2912, 20.2125, 13.4385



15.9237, 20.2125, 0.9746



7.8329, 20.2125, 33.6131



22.9231, 20.2125, 98.1818



# Rectangle

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



38.2912, 20.2125, 13.4385



26.9682, 20.2125, 1.4894



7.8329, 20.2125, 33.6131



13.1059, 20.2125, 88.8797

# Sweetspot

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



38.2917, 20.2137, 13.4388



71.0124, 62.1820, 69.2658



32.5778, 15.7230, 82.9788



14.6492, 12.4596, 13.8688



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.



38.2917, 20.2137, 13.4388



42.7676, 21.8710, 9.9740



37.7741, 22.3096, 3.6133



15.9826, 15.8427, 17.4646



20.4642, 10.4581, 5.0949



1.7462, 0.8875, 0.6544



# Inverse Universe

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



38.2917, 20.2137, 13.4388



42.7676, 21.8710, 9.9740



37.8188, 49.8697, 89.2936



15.9826, 15.8427, 17.4646



20.4642, 10.4581, 5.0949

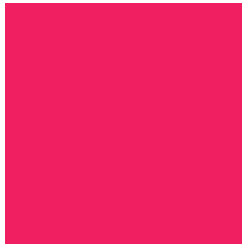


1.7462, 0.8875, 0.6544



# Previews

## White Background



This preview shows how the XYZ color 38.2912, 20.2125, 13.4385 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 38.2912, 20.2125, 13.4385 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 38.2912, 20.2125, 13.4385**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.2912, 20.2125, 13.4385.



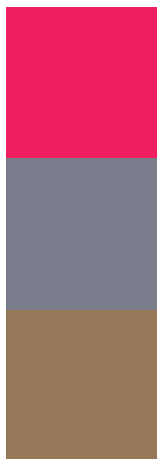
This preview shows how white text looks on a background with the XYZ color 38.2912, 20.2125,



# 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

38.2912, 20.2125, 13.4385

### Protanopia

20.0362, 20.4903, 27.3251

### Deuteranopia

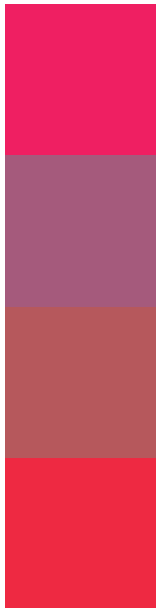
20.8723, 20.5271, 12.0946



## Tritanopia

36.4547, 20.2428, 4.6752

# Trichromacy



## Original Color

38.2912, 20.2125, 13.4385

## Protanomaly

22.8113, 16.7669, 21.1028

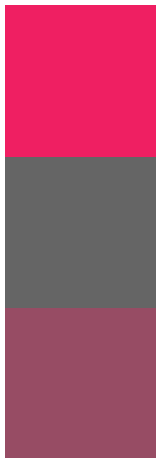
## Deuteranomaly

24.7129, 17.6972, 12.2386

## Tritanomaly

37.0362, 20.1564, 7.0928

# Monochromacy



## Original Color

38.2912, 20.2125, 13.4385

## Achromatopsia

12.3695, 13.0136, 14.1719

## Achromatomaly

17.6472, 12.6683, 13.5717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.2912, 20.2125, 13.4385 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(239, 31, 98)` looks like.

```
.text, #text, p{  
    color:rgb(239, 31, 98)  
}
```

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(239, 31, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 31, 98) }
```

## Border

The CSS property to change the border of an element to XYZ 38.2912, 20.2125, 13.4385 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(239, 31, 98) }
```



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

```
.border{ border-color:rgb(239, 31, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 31, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 31, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 31, 98);  
box-shadow:4px 4px 4px 4px rgb(239, 31,  
98) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.2912, 20.2125, 13.4385 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 31, 98) }
```

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

```
.background{ background-color: rgb(239, 31,  
98) }
```

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