

# Converting Colors

XYZ(38.5018, 20.0236, 23.4872)

Have a look what the booklet for  
XYZ(38.5018, 20.0236, 23.4872)  
contains.

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# Color

**XYZ(38.5359, 20.0371,  
23.6663)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EA1D84
RGB	234, 29, 132
RGB Percent	92%, 11%, 52%
CMY	0.0824, 0.8862, 0.4824
CMYK	0.00, 0.88, 0.44, 0.08
HSL	330°, 83%, 52%
HSV	330°, 88%, 92%
XYZ	38.5359, 20.0371, 23.6663
YIQ	102.0370, 89.1170, 75.4930

# Conversions

## Conversions Part 2

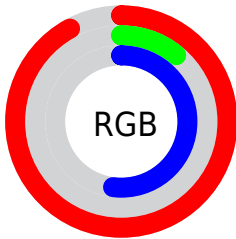
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	234, 29, 132
Decimal	15342980
CIE <sub>Lab</sub>	51.88, 77.48, -3.22
CIE <sub>LCh</sub>	52, 77.550, 357.622
Yxy	20.0371, 0.4686, 0.2436
Android (android.graphics.Color)	4293533060 (0xFFEA1D84)
YUV	102.0370, 14.7718, 115.7316
Hunter-Lab	44.7628, 75.3341, -0.0129

# Details

The XYZ color **38.5359, 20.0371, 23.6663** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark washed rose. A complement of this color would be **34.0285, 60.7464, 31.4129**, and the grayscale version is **12.5885, 13.2441, 14.4228**.

A 20% lighter version of the original color is **54.8472, 34.4633, 49.6603**, and **18.5746, 9.3952, 9.0181** is the 20% darker color. If you saturate the color by 10%, you get **37.4045, 18.9792, 19.5748**, and if you desaturate by 10%, it is **40.1855, 21.9892, 28.3697**.

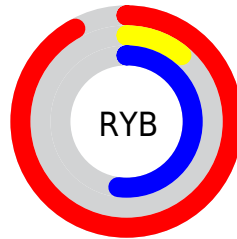
# Distribution



Red (92%)

Green (11%)

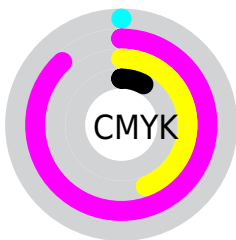
Blue (52%)



Red (92%)

Yellow (11%)

Blue (52%)

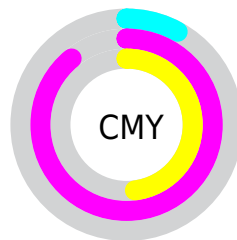


Cyan (0%)

Magenta (88%)

Yellow (44%)

Black (8%)



Cyan (8%)

Magenta (89%)


Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.5359, 20.0371, 23.6663 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 38.5359, 20.0371, 23.6663 by changing the saturation by 10% instead.





 38.5359, 20.0371,  
23.6663


 38.5359, 20.0371,  
23.6663


331.1545,  
252.1159, 284.3611

 26.5780, 12.4220,  
14.8764


 72.2274, 43.4794,  
50.4221


 17.3915, 7.0318,  
8.5870


 94.6917, 60.0754,  
69.2250


 10.6110, 3.4820,  
4.3797


 121.3888, 80.4338,  
92.2027

 5.8713, 1.3882,  
1.8359

 152.6842,  
104.9390, 119.7736

 2.8069, 0.2080,  
0.4515

 188.9431,  
133.9754, 152.3564

 1.0525, 0.0000,  
0.0000

230.5308,

 0.0000, 0.0000,

167.9274, 190.3695

0.0000

277.8129,  
207.1795, 234.2316

■ 38.5359, 20.0371,  
23.6663

■ 38.5359, 20.0371,  
23.6663

■ 37.4045, 18.9792,  
19.5748

■ 40.1855, 21.9892,  
28.3697

■ 37.1754, 18.7899,  
18.6694

■ 42.4446, 25.0134,  
33.7287

■ 45.3836, 29.2461,  
39.7799

■ 49.0620, 34.8028,  
46.5558

■ 53.5327, 41.7850,  
54.0861

■ 58.8434, 50.2843,  
62.3983

■ 65.0378, 60.3846,  
71.5183

■ 72.1566, 72.1637,  
81.4705

■ 80.2378, 85.6941,  
92.2781

# Harmonies

## Analogous

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



34.9104, 20.0371, 54.2575



38.5359, 20.0371, 23.6663



35.8600, 20.0371, 7.2539

# Triad

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



38.5359, 20.0371, 23.6663



12.8510, 20.0371, 1.5357



12.0318, 20.0371, 82.7657

# Complementary

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



38.5359, 20.0371, 23.6663



34.0285, 60.7464, 31.4129

# 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.



8.5314, 20.0371, 48.7354



38.5359, 20.0371, 23.6663



8.9046, 20.0371, 5.8586

# Square

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



38.5359, 20.0371, 23.6663



19.6799, 20.0371, 0.8364



7.5674, 20.0371, 20.0666



18.4233, 20.0371, 100.1702



# Rectangle

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



38.5359, 20.0371, 23.6663



31.1838, 20.0371, 2.9026



7.5674, 20.0371, 20.0666



10.5525, 20.0371, 72.0968

# Sweetspot

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



38.5365, 20.0383, 23.6666



72.5590, 62.8006, 77.4103



24.2077, 11.4170, 78.7695



15.0126, 12.6050, 15.7822



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.



38.5365, 20.0383, 23.6666



45.1434, 22.8213, 22.4849



34.6383, 18.4790, 3.1393



15.3811, 15.1803, 17.2923



20.9542, 10.5844, 10.8263



1.6940, 0.8506, 1.1059



# Inverse Universe

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



38.5365, 20.0383, 23.6666



45.1434, 22.8213, 22.4849



44.2952, 64.8531, 85.4766



15.3811, 15.1803, 17.2923



20.9542, 10.5844, 10.8263



1.6940, 0.8506, 1.1059



# Previews

## White Background



This preview shows how the XYZ color 38.5359, 20.0371, 23.6663 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 38.5359, 20.0371, 23.6663 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 38.5359, 20.0371, 23.6663**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.5359, 20.0371, 23.6663.



This preview shows how white text looks on a background with the XYZ color 38.5359, 20.0371,



# 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

38.5359, 20.0371, 23.6663

### Protanopia

21.4160, 20.3478, 49.2531

### Deuteranopia

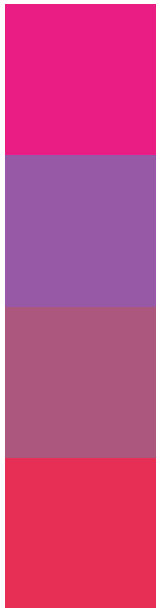
20.5459, 20.1564, 21.2201



## Tritanopia

34.9356, 20.1649, 6.1886

# Trichromacy



## Original Color

38.5359, 20.0371, 23.6663

## Protanomaly

23.1352, 16.3119, 38.0056

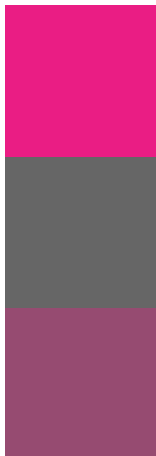
## Deuteranomaly

24.1873, 17.0934, 21.7632

## Tritanomaly

35.6512, 19.6938, 10.7264

# Monochromacy



## Original Color

38.5359, 20.0371, 23.6663

## Achromatopsia

12.6291, 13.2868, 14.4694

## Achromatomaly

18.0744, 12.7084, 17.1231

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.5359, 20.0371, 23.6663 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(234, 29, 132)` looks like.

```
.text, #text, p{  
    color:rgb(234, 29, 132)  
}
```

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(234, 29, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 29, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 38.5359, 20.0371, 23.6663 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(234, 29, 132) }
```



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

```
.border{ border-color:rgb(234, 29, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 29, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 29, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 29, 132);  
box-shadow:4px 4px 4px 4px rgb(234, 29,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.5359, 20.0371, 23.6663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 29, 132) }
```

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

```
.background{ background-color: rgb(234, 29,  
132) }
```

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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