

# Converting Colors

XYZ(40.1399, 20.2959, 19.8118)

Have a look what the booklet for  
XYZ(40.1399, 20.2959, 19.8118)  
contains.

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# Color

**XYZ(40.0691, 20.2577,  
19.8874)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F20079
RGB	242, 0, 121
RGB Percent	95%, 0%, 47%
CMY	0.0510, 0.9998, 0.5255
CMYK	0.00, 1.00, 0.50, 0.05
HSL	330°, 100%, 47%
HSV	330°, 100%, 95%
XYZ	40.0691, 20.2577, 19.8874
YIQ	86.1520, 105.3910, 88.9350

# Conversions

## Conversions Part 2

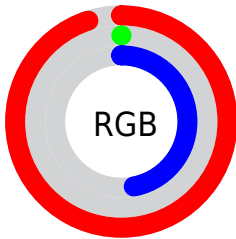
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	242, 0, 121
Decimal	15859833
CIE <sub>Lab</sub>	52.13, 81.26, 3.99
CIE <sub>LCh</sub>	52, 81.355, 2.808
Yxy	20.2577, 0.4995, 0.2525
Android (android.graphics.Color)	4294049913 (0xFFFF20079)
YUV	86.1520, 17.1801, 136.6787
Hunter-Lab	45.0086, 80.1456, 5.3082

# Details

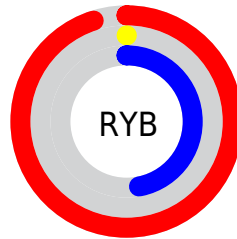
The XYZ color **40.0691, 20.2577, 19.8874** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark saturated rose. A complement of this color would be **35.2074, 64.8863, 28.7764**, and the grayscale version is **8.8334, 9.2935, 10.1206**.

A 20% lighter version of the original color is **53.0575, 32.8265, 43.0749**, and **19.7930, 10.0647, 7.2028** is the 20% darker color. If you saturate the color by 10%, you get **40.0672, 20.2569, 19.8781**, and if you desaturate by 10%, it is **41.1905, 21.2374, 24.1559**.

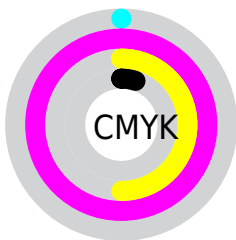
# Distribution



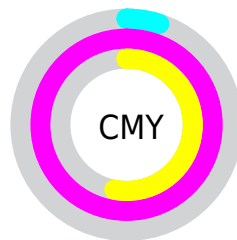
- Red (95%)
- Green (0%)
- Blue (47%)



- Red (95%)
- Yellow (0%)
- Blue (47%)



- Cyan (0%)
- Magenta (100%)
- Yellow (50%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0691, 20.2577, 19.8874 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 40.0691, 20.2577, 19.8874 by changing the saturation by 10% instead.





 40.0691, 20.2577,  
19.8874


 40.0691, 20.2577,  
19.8874

337.5442,  
253.3068, 263.8889


 27.7769, 12.5825,  
12.1300


 74.5524, 43.8488,  
44.0848


 18.2971, 7.1417,  
6.7086


 97.4742, 60.5335,  
61.3619


 11.2645, 3.5509,  
3.2049


 124.6699, 80.9902,  
82.6492

 6.3136, 1.4256,  
1.2002

 156.5048,  
105.6032, 108.3653

 3.0792, 0.2355,  
0.0000

 193.3443,  
134.7570, 138.9288

 1.1958, 0.0000,  
0.0000

 235.5538,

 0.1030, 0.0000,

168.8359, 174.7582

0.0000

283.4987,  
208.2244, 216.2721

■ 0.0000, 0.0000,  
0.0000

■ 40.0691, 20.2577,  
19.8874

■ 40.0691, 20.2577,  
19.8874

■ 40.0672, 20.2569,  
19.8781

■ 41.1905, 21.2374,  
24.1559

■ 42.8203, 23.0794,  
29.0693

■ 45.0901, 26.0423,  
34.6869

■ 48.0795, 30.2804,  
41.0497

■ 51.8556, 35.9234,  
48.1942

■ 56.4773, 43.0848,  
56.1534

■ 61.9977, 51.8665,  
64.9580

■ 68.4653, 62.3613,  
74.6367

■ 75.9249, 74.6553,  
85.2166

# Harmonies

## Analogous

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



37.2846, 20.2577, 50.3295



40.0691, 20.2577, 19.8874



36.0799, 20.2577, 5.3779

# Triad

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



40.0691, 20.2577, 19.8874



11.8200, 20.2577, 1.6093



12.8281, 20.2577, 93.0956

# Complementary

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



40.0691, 20.2577, 19.8874



35.2074, 64.8863, 28.7764

# 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.



8.6928, 20.2577, 57.3746



40.0691, 20.2577, 19.8874



8.2396, 20.2577, 7.0428

# Square

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



40.0691, 20.2577, 19.8874



18.4810, 20.2577, 0.6024



7.2855, 20.2577, 24.3793



20.0489, 20.2577, 106.8036



# Rectangle

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



40.0691, 20.2577, 19.8874



30.6385, 20.2577, 1.9866



7.2855, 20.2577, 24.3793



11.1103, 20.2577, 82.4163

# Sweetspot

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



40.0696, 20.2589, 19.8877



69.7508, 58.2964, 73.0452



23.9168, 10.4791, 84.7662



14.3407, 11.5355, 14.7129



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.



40.0696, 20.2589, 19.8877



45.1015, 22.8046, 22.2642



36.6187, 18.8786, 1.7156



16.1023, 15.8907, 18.0952



21.5936, 10.9098, 11.0422



1.8466, 0.9277, 1.1831



# Inverse Universe

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



40.0696, 20.2589, 19.8877



45.1015, 22.8046, 22.2642



47.7797, 69.9151, 94.9808



16.1023, 15.8907, 18.0952



21.5936, 10.9098, 11.0422



1.8466, 0.9277, 1.1831



# Previews

## White Background



This preview shows how the XYZ color 40.0691, 20.2577, 19.8874 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 40.0691, 20.2577, 19.8874 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 40.0691, 20.2577, 19.8874**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.0691, 20.2577, 19.8874.



This preview shows how white text looks on a background with the XYZ color 40.0691, 20.2577,

19.8874.

# 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

40.0691, 20.2577, 19.8874

### Protanopia

21.5011, 20.8900, 43.4564

### Deuteranopia

21.0343, 20.6621, 17.9185



## Tritanopia

37.1871, 20.6780, 4.8276

# Trichromacy



## Original Color

40.0691, 20.2577, 19.8874



## Protanomaly

23.0105, 15.3295, 32.7564



## Deuteranomaly

24.3388, 16.1293, 18.0501



## Tritanomaly

37.6952, 20.0132, 8.5328

# Monochromacy



## Original Color

40.0691, 20.2577, 19.8874



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

14.9460, 9.4729, 12.8451

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0691, 20.2577, 19.8874 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(242, 0, 121)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 121)  
}
```

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(242, 0, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 121) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0691, 20.2577, 19.8874 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(242, 0, 121) }
```



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

```
.border{ border-color:rgb(242, 0, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 0, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 121);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
121) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0691, 20.2577, 19.8874 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 121) }
```

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

```
.background{ background-color: rgb(242, 0,  
121) }
```

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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