

# Converting Colors

XYZ(39.9042, 19.8982, 14.6404)

Have a look what the booklet for  
XYZ(39.9042, 19.8982, 14.6404)  
contains.

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# Color

**XYZ(40.1044, 20.3917,  
14.6542)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F50067
RGB	245, 0, 103
RGB Percent	96%, 0%, 40%
CMY	0.0392, 0.9998, 0.5961
CMYK	0.00, 1.00, 0.58, 0.04
HSL	335°, 100%, 48%
HSV	335°, 100%, 96%
XYZ	40.1044, 20.3917, 14.6542
YIQ	84.9970, 112.9570, 83.9730

# Conversions

## Conversions Part 2

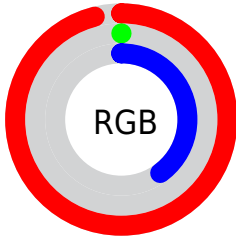
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	245, 0, 103
Decimal	16056423
CIE Lab	52.28, 80.72, 15.23
CIE LCh	52, 82.145, 10.682
Yxy	20.3917, 0.5337, 0.2713
Android (android.graphics.Color)	4294246503 (0xFFFF50067)
YUV	84.9970, 8.8755, 140.3226
Hunter-Lab	45.1572, 79.5021, 12.3695

# Details

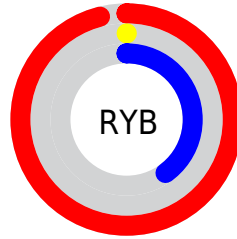
The XYZ color **40.1044, 20.3917, 14.6542** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark saturated rose. A complement of this color would be **37.5398, 67.2597, 36.6175**, and the grayscale version is **8.6060, 9.0542, 9.8601**.

A 20% lighter version of the original color is **51.3474, 32.1425, 34.0697**, and **19.7946, 10.1192, 4.7808** is the 20% darker color. If you saturate the color by 10%, you get **40.1026, 20.3910, 14.6455**, and if you desaturate by 10%, it is **41.2172, 21.3781, 18.8464**.

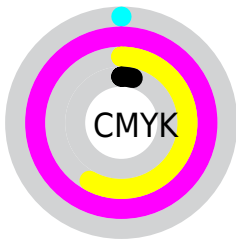
# Distribution



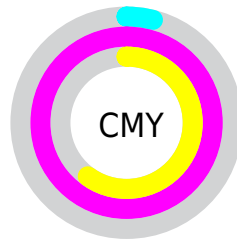
- Red (96%)
- Green (0%)
- Blue (40%)



- Red (96%)
- Yellow (0%)
- Blue (40%)



- Cyan (0%)
- Magenta (100%)
- Yellow (58%)
- Black (4%)




- Cyan (4%)
- Magenta (100%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1044, 20.3917, 14.6542 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 40.1044, 20.3917, 14.6542 by changing the saturation by 10% instead.





 40.1044, 20.3917,  
14.6542


 40.1044, 20.3917,  
14.6542


337.6903,  
254.0278, 232.8318


 27.8045, 12.6801,  
8.4331


 74.6058, 44.0729,  
34.9791


 18.3181, 7.2086,  
4.2816


 97.5380, 60.8113,  
49.9200


 11.2796, 3.5929,  
1.7811


 124.7451, 81.3275,  
68.6045

 6.3239, 1.4486,  
0.4154

 156.5923,  
106.0057, 91.4514

 3.0856, 0.2521,  
0.0000

 193.4451,  
135.2305, 118.8790

 1.1992, 0.0000,  
0.0000

 235.6688,

 0.1057, 0.0000,

169.3862, 151.3059

0.0000

283.6287,  
208.8571, 189.1506

■ 0.0000, 0.0000,  
0.0000

■ 40.1044, 20.3917,  
14.6542

■ 40.1044, 20.3917,  
14.6542

■ 40.1026, 20.3910,  
14.6455

■ 41.2172, 21.3781,  
18.8464

■ 42.8812, 23.2636,  
23.8478

■ 45.2334, 26.3143,  
29.7305

■ 48.3580, 30.6901,  
36.5472

■ 52.3259, 36.5254,  
44.3451

■ 57.1996, 43.9380,  
53.1675

■ 63.0354, 53.0336,  
63.0544

■ 69.8848, 63.9085,  
74.0435

■ 77.7956, 76.6518,  
86.1703

# Harmonies

## Analogous

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



39.0859, 20.3917, 41.4024



40.1044, 20.3917, 14.6542



34.4783, 20.3917, 3.5968

# Triad

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



40.1044, 20.3917, 14.6542



10.6105, 20.3917, 2.3173



14.4932, 20.3917, 101.2911

# Complementary

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



40.1044, 20.3917, 14.6542



37.5398, 67.2597, 36.6175

# 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.



9.4954, 20.3917, 68.3728



40.1044, 20.3917, 14.6542



7.7460, 20.3917, 10.1030

# Square

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



40.1044, 20.3917, 14.6542



16.5265, 20.3917, 0.6580



7.4078, 20.3917, 31.9805



22.5482, 20.3917, 106.3567



# Rectangle

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



40.1044, 20.3917, 14.6542



28.4644, 20.3917, 1.3331



7.4078, 20.3917, 31.9805



12.4714, 20.3917, 92.3879

# Sweetspot

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



40.1049, 20.3930, 14.6545



68.9742, 57.9858, 68.9559



27.1058, 12.0706, 87.2872



14.1579, 11.4624, 13.7501



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.



40.1049, 20.3930, 14.6545



43.9028, 22.3251, 15.9520



37.8475, 19.7947, 1.8276



16.7881, 16.5981, 18.6305



21.6697, 11.0113, 8.2350



1.9547, 0.9878, 0.9876



# Inverse Universe

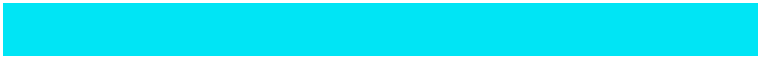
The Inverse Universe completely reimagines the original color for something new.



40.1049, 20.3930, 14.6545



43.9028, 22.3251, 15.9520



44.4103, 62.4492, 96.0992



16.7881, 16.5981, 18.6305



21.6697, 11.0113, 8.2350



1.9547, 0.9878, 0.9876



# Previews

## White Background



This preview shows how the XYZ color 40.1044, 20.3917, 14.6542 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 40.1044, 20.3917, 14.6542 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 40.1044, 20.3917, 14.6542**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1044, 20.3917, 14.6542.



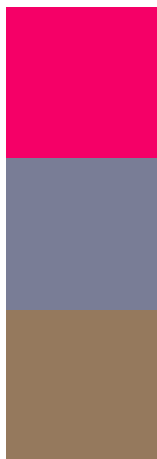
This preview shows how white text looks on a background with the XYZ color 40.1044, 20.3917,



# 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

40.1044, 20.3917, 14.6542

### Protanopia

20.7238, 20.9342, 31.8026

### Deuteranopia

21.2076, 20.8546, 13.2635



## Tritanopia

38.1213, 20.7870, 3.9225

# Trichromacy



## Original Color

40.1044, 20.3917, 14.6542



## Protanomaly

22.8282, 15.5378, 23.9862



## Deuteranomaly

24.5787, 16.3612, 13.1718



## Tritanomaly

38.5471, 20.3197, 6.4479

# Monochromacy



## Original Color

40.1044, 20.3917, 14.6542



## Achromatopsia

8.6345, 9.0842, 9.8927



## Achromatomaly

14.5786, 9.2507, 11.1424

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1044, 20.3917, 14.6542 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(245, 0, 103)` looks like.

```
.text, #text, p{  
    color:rgb(245, 0, 103)  
}
```

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(245, 0, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 0, 103) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1044, 20.3917, 14.6542 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(245, 0, 103) }
```



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

```
.border{ border-color:rgb(245, 0, 103) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 0, 103)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 0, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 0, 103);  
box-shadow:4px 4px 4px 4px rgb(245, 0,  
103) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1044, 20.3917, 14.6542 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 0, 103) }
```

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

```
.background{ background-color: rgb(245, 0,  
103) }
```

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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