

# Converting Colors

XYZ(40.9880, 20.8405, 15.0008)

Have a look what the booklet for  
XYZ(40.9880, 20.8405, 15.0008)  
contains.

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# Color

**XYZ(40.8565, 20.7736,  
14.9530)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F70068
RGB	247, 0, 104
RGB Percent	97%, 0%, 41%
CMY	0.0314, 0.9998, 0.5922
CMYK	0.00, 1.00, 0.58, 0.03
HSL	335°, 100%, 48%
HSV	335°, 100%, 97%
XYZ	40.8565, 20.7736, 14.9530
YIQ	85.7090, 113.8280, 84.7080

# Conversions

## Conversions Part 2

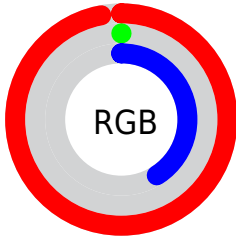
<b>Format</b>	<b>Color</b>
<b>RYB</b>	247, 0, 104
Decimal	16187496
CIELab	52.70, 81.23, 15.26
CIELCh	53, 82.647, 10.643
Yxy	20.7736, 0.5335, 0.2713
Android (android.graphics.Color)	4294377576 (0xFFFF70068)
YUV	85.7090, 9.0175, 141.4522
Hunter-Lab	45.5781, 80.2470, 12.4531

# Details

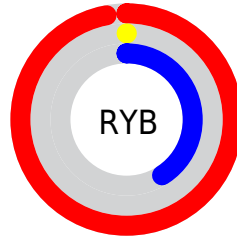
The XYZ color **40.8565, 20.7736, 14.9530** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark saturated rose. A complement of this color would be **38.2238, 68.5067, 37.2186**, and the grayscale version is **8.7553, 9.2113, 10.0311**.

A 20% lighter version of the original color is **51.4311, 32.1759, 34.5102**, and **20.2922, 10.3728, 4.9356** is the 20% darker color. If you saturate the color by 10%, you get **40.8546, 20.7729, 14.9439**, and if you desaturate by 10%, it is **41.9883, 21.7744, 19.2241**.

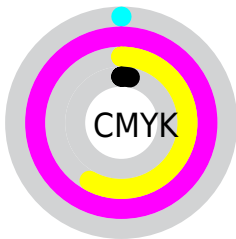
# Distribution



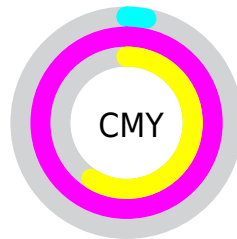
- Red (97%)
- Green (0%)
- Blue (41%)



- Red (97%)
- Yellow (0%)
- Blue (41%)



- Cyan (0%)
- Magenta (100%)
- Yellow (58%)
- Black (3%)




- Cyan (3%)
- Magenta (100%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.8565, 20.7736, 14.9530 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 40.8565, 20.7736, 14.9530 by changing the saturation by 10% instead.




 40.8565, 20.7736,  
14.9530


 40.8565, 20.7736,  
14.9530


340.7933,  
256.0728, 234.7125


 28.3941, 12.9586,  
8.6401


 75.7421, 44.7104,  
35.5118

 18.7650, 7.4001,  
4.4136


 98.8960, 61.6011,  
50.5949


 11.6036, 3.7135,  
1.8549


 126.3446, 82.2857,  
69.4385

 6.5446, 1.5146,  
0.4638

 158.4530,  
107.1488, 92.4611

 3.2228, 0.2990,  
0.0000

 195.5868,  
136.5746, 120.0812

 1.2726, 0.0000,  
0.0000

 238.1112,

 0.1626, 0.0000,

170.9476, 152.7175

0.0000

286.3916,  
210.6523, 190.7884

■ 0.0000, 0.0000,  
0.0000

■ 40.8565, 20.7736,  
14.9530

■ 40.8565, 20.7736,  
14.9530

■ 40.8546, 20.7729,  
14.9439

■ 41.9883, 21.7744,  
19.2241

■ 43.6818, 23.6920,  
24.3189

■ 46.0765, 26.7967,  
30.3107

■ 49.2581, 31.2519,  
37.2532

■ 53.2990, 37.1947,  
45.1944

■ 58.2629, 44.7452,  
54.1783

■ 64.2074, 54.0112,  
64.2458

■ 71.1848, 65.0910,  
75.4352

■ 79.2440, 78.0755,  
87.7828

# Harmonies

## Analogous

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



39.8099, 20.7736, 42.2213



40.8565, 20.7736, 14.9530



35.1330, 20.7736, 3.6722

# Triad

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



40.8565, 20.7736, 14.9530



10.8155, 20.7736, 2.3568



14.7563, 20.7736, 103.1482

# Complementary

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



40.8565, 20.7736, 14.9530



38.2238, 68.5067, 37.2186

# 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.



9.6695, 20.7736, 69.5963



40.8565, 20.7736, 14.9530



7.8938, 20.7736, 10.2753

# Square

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



40.8565, 20.7736, 14.9530



16.8461, 20.7736, 0.6738



7.5462, 20.7736, 32.5385



22.9580, 20.7736, 108.3537



# Rectangle

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



40.8565, 20.7736, 14.9530



29.0091, 20.7736, 1.3610



7.5462, 20.7736, 32.5385



12.6982, 20.7736, 94.0683

# Sweetspot

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



40.8570, 20.7749, 14.9533



68.9803, 57.9882, 68.9882



27.6030, 12.2915, 88.9131



14.1593, 11.4630, 13.7577



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.



40.8570, 20.7749, 14.9533



43.9114, 22.3286, 15.9975



38.5511, 20.1605, 1.8612



16.7885, 16.5983, 18.6329



21.6740, 11.0130, 8.2577



1.9551, 0.9880, 0.9897



# Inverse Universe

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



40.8570, 20.7749, 14.9533



43.9114, 22.3286, 15.9975



45.2357, 63.6088, 97.8890



16.7885, 16.5983, 18.6329



21.6740, 11.0130, 8.2577



1.9551, 0.9880, 0.9897



# Previews

## White Background



This preview shows how the XYZ color 40.8565, 20.7736, 14.9530 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

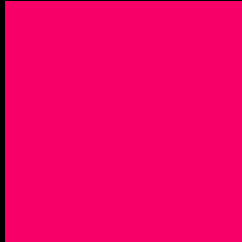
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.8565, 20.7736, 14.9530 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 40.8565, 20.7736, 14.9530**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.8565, 20.7736, 14.9530.



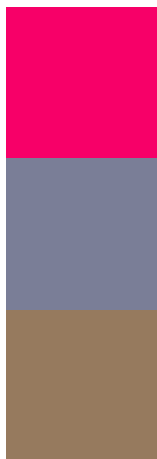
This preview shows how white text looks on a background with the XYZ color 40.8565, 20.7736,



# 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

40.8565, 20.7736, 14.9530

### Protanopia

21.0728, 21.2936, 32.2776

### Deuteranopia

21.5576, 21.2112, 13.5476



## Tritanopia

38.8672, 21.2216, 4.0551

# Trichromacy



## Original Color

40.8565, 20.7736, 14.9530



## Protanomaly

23.1081, 15.6740, 24.3617



## Deuteranomaly

24.9366, 16.6449, 13.4538



## Tritanomaly

39.2952, 20.7356, 6.6339

# Monochromacy



## Original Color

40.8565, 20.7736, 14.9530



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

15.0190, 9.5424, 11.4062

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.8565, 20.7736, 14.9530 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(247, 0, 104)` looks like.

```
.text, #text, p{  
  color:rgb(247, 0, 104)  
}
```

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(247, 0, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 0, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 40.8565, 20.7736, 14.9530 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(247, 0, 104) }
```



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

```
.border{ border-color:rgb(247, 0, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 0, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 0, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 0, 104);  
box-shadow:4px 4px 4px 4px rgb(247, 0,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.8565, 20.7736, 14.9530 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 0, 104) }
```

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

```
.background{ background-color: rgb(247, 0,  
104) }
```

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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