

# Converting Colors

XYZ(42.8038, 21.7778, 15.0286)

Have a look what the booklet for  
XYZ(42.8038, 21.7778, 15.0286)  
contains.

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# Color

**XYZ(42.6436, 21.6949,  
15.0367)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC0068
RGB	252, 0, 104
RGB Percent	99%, 0%, 41%
CMY	0.0118, 0.9998, 0.5922
CMYK	0.00, 1.00, 0.59, 0.01
HSL	335°, 100%, 49%
HSV	335°, 100%, 99%
XYZ	42.6436, 21.6949, 15.0367
YIQ	87.2040, 116.8080, 85.7680

# Conversions

## Conversions Part 2

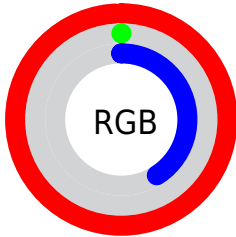
<b>Format</b>	<b>Color</b>
<b>RYB</b>	252, 0, 104
Decimal	16515176
CIELab	53.70, 82.33, 16.80
CIELCh	54, 84.031, 11.531
Yxy	21.6949, 0.5372, 0.2733
Android (android.graphics.Color)	4294705256 (0xFFFC0068)
YUV	87.2040, 8.2804, 144.5261
Hunter-Lab	46.5778, 81.9119, 13.4639

# Details

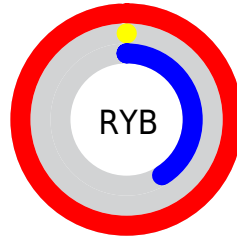
The XYZ color **42.6436, 21.6949, 15.0367** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark saturated rose. A complement of this color would be **40.1613, 71.7611, 39.7776**, and the grayscale version is **9.0757, 9.5483, 10.3981**.

A 20% lighter version of the original color is **51.5241, 32.3619, 34.5412**, and **21.2572, 10.8703, 4.9808** is the 20% darker color. If you saturate the color by 10%, you get **42.6415, 21.6941, 15.0268**, and if you desaturate by 10%, it is **43.8160, 22.7292, 19.4689**.

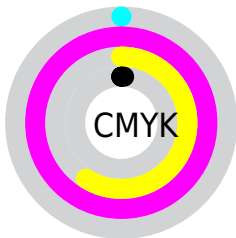
# Distribution



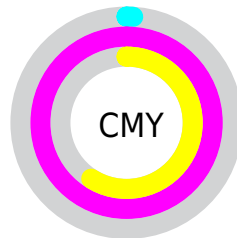
- Red (99%)
- Green (0%)
- Blue (41%)



- Red (99%)
- Yellow (0%)
- Blue (41%)



- Cyan (0%)
- Magenta (100%)
- Yellow (59%)
- Black (1%)




- Cyan (1%)
- Magenta (100%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6436, 21.6949, 15.0367 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 42.6436, 21.6949, 15.0367 by changing the saturation by 10% instead.





 42.6436, 21.6949,  
15.0367


 42.6436, 21.6949,  
15.0367


348.0904,  
260.9488, 235.2367


 29.7989, 13.6329,  
8.6982


 78.4318, 46.2412,  
35.6608


 19.8333, 7.8658,  
4.4508

 102.1061, 63.4943,  
50.7834


 12.3815, 4.0092,  
1.8757


 130.1208, 84.5799,  
69.6713

 7.0781, 1.6787,  
0.4772

 162.8415,  
109.8823, 92.7428

 3.5577, 0.4098,  
0.0000

 200.6335,  
139.7861, 120.4166

 1.4551, 0.0000,  
0.0000

 243.8620,

 0.2950, 0.0000,

174.6754, 153.1111

0.0000

292.8926,  
214.9349, 191.2450

■ 0.0000, 0.0000,  
0.0000

■ 42.6436, 21.6949,  
15.0367

■ 42.6436, 21.6949,  
15.0367

■ 42.6415, 21.6941,  
15.0268

■ 43.8160, 22.7292,  
19.4689

■ 45.5810, 24.7267,  
24.7814

■ 48.0840, 27.9692,  
31.0523

■ 51.4153, 32.6283,  
38.3394

■ 55.6515, 38.8484,  
46.6947

60.8596, 46.7558,  
56.1654

67.1003, 56.4637,  
66.7956

74.4288, 68.0756,  
78.6266

82.8966, 81.6868,  
91.6976

# Harmonies

## Analogous

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



41.7700, 21.6949, 43.0536



42.6436, 21.6949, 15.0367



36.4739, 21.6949, 3.6455

# Triad

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



42.6436, 21.6949, 15.0367



11.1445, 21.6949, 2.5566



15.6105, 21.6949, 108.6843

# Complementary

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



42.6436, 21.6949, 15.0367



40.1613, 71.7611, 39.7776

# 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.



10.1907, 21.6949, 74.0617



42.6436, 21.6949, 15.0367



8.1780, 21.6949, 11.1449

# Square

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



42.6436, 21.6949, 15.0367



17.3514, 21.6949, 0.7169



7.8889, 21.6949, 34.9765



24.2760, 21.6949, 113.0345



# Rectangle

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



42.6436, 21.6949, 15.0367



30.0165, 21.6949, 1.3514



7.8889, 21.6949, 34.9765



13.4235, 21.6949, 99.4436

# Sweetspot

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



42.6441, 21.6962, 15.0370



68.9004, 57.9563, 68.5674



29.6086, 13.2351, 93.0892



14.1406, 11.4555, 13.6589



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.



42.6441, 21.6962, 15.0370



43.8001, 22.2841, 15.4115



40.4143, 21.2340, 1.9703



17.5415, 17.3440, 19.4414



22.2816, 11.3284, 8.1915



2.1150, 1.0697, 1.0288



# Inverse Universe

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



42.6441, 21.6962, 15.0370



43.8001, 22.2841, 15.4115



46.1487, 64.1832, 102.0514



17.5415, 17.3440, 19.4414



22.2816, 11.3284, 8.1915



2.1150, 1.0697, 1.0288



# Previews

## White Background



This preview shows how the XYZ color 42.6436, 21.6949, 15.0367 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

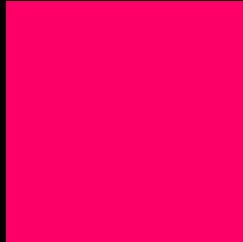
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.6436, 21.6949, 15.0367 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 42.6436, 21.6949, 15.0367**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6436, 21.6949, 15.0367.



This preview shows how white text looks on a background with the XYZ color 42.6436, 21.6949,



# 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

42.6436, 21.6949, 15.0367

### Protanopia

21.9752, 22.3275, 32.8572

### Deuteranopia

22.5099, 22.0756, 13.4306



## Tritanopia

40.6353, 22.1331, 4.1379

# Trichromacy



## Original Color

42.6436, 21.6949, 15.0367



## Protanomaly

24.1851, 16.4418, 24.8206



## Deuteranomaly

26.1889, 17.4022, 13.2879



## Tritanomaly

41.0728, 21.6520, 6.7171

# Monochromacy



## Original Color

42.6436, 21.6949, 15.0367



## Achromatopsia

9.0590, 9.5307, 10.3790



## Achromatomaly

15.3746, 9.7257, 11.4228

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6436, 21.6949, 15.0367 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(252, 0, 104)` looks like.

```
.text, #text, p{  
    color:rgb(252, 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(252, 0, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6436, 21.6949, 15.0367 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(252, 0, 104) }
```



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

```
.border{ border-color:rgb(252, 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(252, 0, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 104);  
box-shadow:4px 4px 4px 4px rgb(252, 0,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6436, 21.6949, 15.0367 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 104) }
```

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

```
.background{ background-color: rgb(252, 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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