

# Converting Colors

XYZ(67.9842, 45.8848, 83.5624)

Have a look what the booklet for  
XYZ(67.9842, 45.8848, 83.5624)  
contains.

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# Color

**XYZ(64.7605, 44.3084,  
83.7364)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF86EB
RGB	255, 134, 235
RGB Percent	100%, 53%, 92%
CMY	0.0000, 0.4745, 0.0784
CMYK	0.00, 0.47, 0.08, 0.00
HSL	310°, 100%, 76%
HSV	310°, 47%, 100%
XYZ	64.7605, 44.3084, 83.7364
YIQ	181.6930, 39.6950, 57.0630

# Conversions

## Conversions Part 2

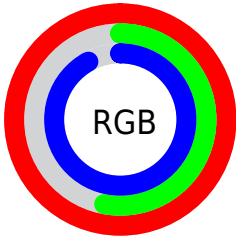
Format	Color
R <sub>Y</sub> B	255, 134, 235
Decimal	16746219
CIE Lab	72.43, 58.79, -30.76
CIE LCh	72, 66.355, 332.378
Yxy	44.3084, 0.3359, 0.2298
Android (android.graphics.Color)	4294936299 (0xFFFF86EB)
YUV	181.6930, 26.2804, 64.2902
Hunter-Lab	66.5646, 57.1743, -27.9900

# Details

The XYZ color **64.7605, 44.3084, 83.7364** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **51.4258, 78.9222, 43.0975**, and the grayscale version is **44.1445, 46.4435, 50.5769**.

A 20% lighter version of the original color is **77.7035, 65.3069, 103.1178**, and **33.6976, 20.5824, 44.8446** is the 20% darker color. If you saturate the color by 10%, you get **61.0497, 37.8497, 79.5309**, and if you desaturate by 10%, it is **69.3373, 52.4756, 88.3029**.

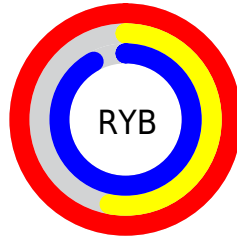
# Distribution



Red (100%)

Green (53%)

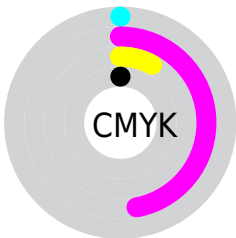
Blue (92%)



Red (100%)

Yellow (53%)

Blue (92%)

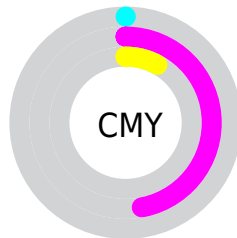


Cyan (0%)

Magenta (47%)

Yellow (8%)

Black (0%)



Cyan (0%)

Magenta (47%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.7605, 44.3084, 83.7364 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 64.7605, 44.3084, 83.7364 by changing the saturation by 10% instead.




 64.7605, 44.3084,  
83.7364


 64.7605, 44.3084,  
83.7364


431.4896,  
363.9653, 527.4726


 47.5309, 30.9130,  
62.2537

 110.7731, 81.6816,  
140.4648

 33.6652, 20.5326,  
44.8006


 140.2868,  
106.4282, 176.5476

 22.7982, 12.7828,  
30.9586


 174.6258,  
135.7274, 218.3342

 14.5645, 7.2792,  
20.3091

214.1557,  
169.9635, 266.2431

 8.5986, 3.6373,  
12.4336

259.2416,  
209.5210, 320.6928

 4.5353, 1.4728,  
6.9136

310.2490,

 2.0092, 0.2695,

254.7842, 382.1020

3.3305

367.5432,  
306.1375, 450.8891

■ 0.6391, 0.0000,  
1.2658

■ 0.0000, 0.0000,  
0.0335

■ 64.7605, 44.3084,  
83.7364

■ 64.7605, 44.3084,  
83.7364

■ 61.0497, 37.8497,  
79.5309

■ 69.3373, 52.4756,  
88.3029

■ 58.1397, 32.9699,  
75.6625

■ 74.8331, 62.4578,  
93.2468

■ 55.9609, 29.5296,  
72.1080

■ 81.3002, 74.3591,  
98.5867

■ 54.4300, 27.3627,  
68.8392

■ 88.7859, 88.2741,  
104.3387

■ 53.4388, 26.2525, 95.0500, 100.0000,  
65.8196 108.9000

■ 53.2313, 26.0565,  
65.0752

# Harmonies

## Analogous

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



55.0232, 44.3084, 123.3856



64.7605, 44.3084, 83.7364



68.1317, 44.3084, 45.6779

# Triad

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



64.7605, 44.3084, 83.7364



41.2079, 44.3084, 8.7097



26.1365, 44.3084, 90.4452

# Complementary

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



64.7605, 44.3084, 83.7364



51.4258, 78.9222, 43.0975

# 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.



23.7398, 44.3084, 50.9051



64.7605, 44.3084, 83.7364



31.4002, 44.3084, 12.2053

# Square

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



64.7605, 44.3084, 83.7364



53.1559, 44.3084, 11.1895



25.4782, 44.3084, 24.5372



32.7177, 44.3084, 128.3377



# Rectangle

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



64.7605, 44.3084, 83.7364



65.9002, 44.3084, 28.0180



25.4782, 44.3084, 24.5372



24.8747, 44.3084, 76.4169

# Sweetspot

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



64.7615, 44.3102, 83.7373



83.7642, 78.9255, 100.5229



39.5541, 30.9624, 98.4994



17.5959, 16.2757, 21.2555



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.



64.7615, 44.3102, 83.7373



61.1985, 38.1046, 79.7121



57.6376, 41.4607, 46.2232



18.6561, 18.2458, 22.0723



27.8623, 13.6342, 34.2551



2.7456, 1.3406, 3.5079



# Inverse Universe

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



64.7615, 44.3102, 83.7373



61.1985, 38.1046, 79.7121



57.5587, 81.3753, 75.3930



18.6561, 18.2458, 22.0723



27.8623, 13.6342, 34.2551



2.7456, 1.3406, 3.5079



# Previews

## White Background



This preview shows how the XYZ color 64.7605, 44.3084, 83.7364 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

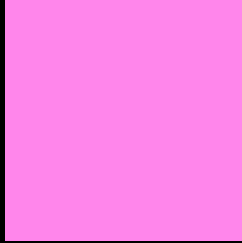
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.7605, 44.3084, 83.7364 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

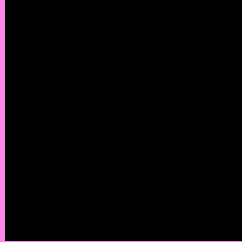
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.7605, 44.3084, 83.7364**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.7605, 44.3084, 83.7364.



This preview shows how white text looks on a background with the XYZ color 64.7605, 44.3084,



# 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

64.7605, 44.3084, 83.7364

### Protanopia

46.5242, 44.9461, 100.8311

### Deuteranopia

45.6957, 44.6964, 79.6176



## Tritanopia

55.7857, 44.1955, 39.7728

# Trichromacy



## Original Color

64.7605, 44.3084, 83.7364



## Protanomaly

50.6744, 43.0859, 94.4525



## Deuteranomaly

50.8140, 43.1905, 81.2597



## Tritanomaly

58.5829, 43.9446, 53.5386

# Monochromacy



## Original Color

64.7605, 44.3084, 83.7364



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

50.2922, 44.6826, 61.2323

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.7605, 44.3084, 83.7364 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(255, 134, 235)` looks like.

```
.text, #text, p{  
    color:rgb(255, 134, 235)  
}
```

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(255, 134, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 134, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 64.7605, 44.3084, 83.7364 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(255, 134, 235) }
```



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

```
.border{ border-color:rgb(255, 134, 235) }
```

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

Here you see how a box with a 4 pixel rgb(255, 134, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 134, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 134, 235);  
box-shadow:4px 4px 4px 4px rgb(255, 134,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.7605, 44.3084, 83.7364 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 134, 235) }
```

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

```
.background{ background-color: rgb(255,  
134, 235) }
```

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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