

# Converting Colors

XYZ(109.9494, 67.3374,  
86.8917)

Have a look what the booklet for  
XYZ(109.9494, 67.3374, 86.8917)  
contains.

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# Color

**XYZ(64.7679, 44.0912,  
84.4537)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF85EC
RGB	255, 133, 236
RGB Percent	100%, 52%, 93%
CMY	0.0000, 0.4784, 0.0745
CMYK	0.00, 0.48, 0.07, 0.00
HSL	309°, 100%, 76%
HSV	309°, 48%, 100%
XYZ	64.7679, 44.0912, 84.4537
YIQ	181.2200, 39.6490, 57.8970

# Conversions

## Conversions Part 2

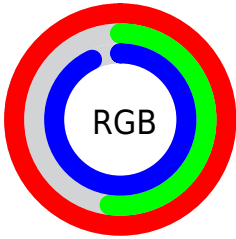
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 133, 236
Decimal	16745964
CIE Lab	72.29, 59.43, -31.54
CIE LCh	72, 67.282, 332.049
Yxy	44.0912, 0.3350, 0.2281
Android (android.graphics.Color)	4294936044 (0xFFFF85EC)
YUV	181.2200, 27.0065, 64.7051
Hunter-Lab	66.4012, 57.9072, -28.9283

# Details

The XYZ color **64.7679, 44.0912, 84.4537** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **51.1018, 78.7742, 42.2198**, and the grayscale version is **43.8847, 46.1701, 50.2792**.

A 20% lighter version of the original color is **77.4876, 64.8752, 103.0459**, and **33.7276, 20.4798, 45.3554** is the 20% darker color. If you saturate the color by 10%, you get **61.1203, 37.7092, 80.4230**, and if you desaturate by 10%, it is **69.2774, 52.1764, 88.8361**.

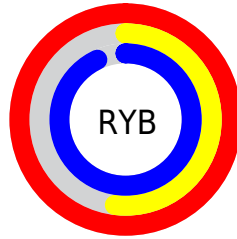
# Distribution



Red (100%)

Green (52%)

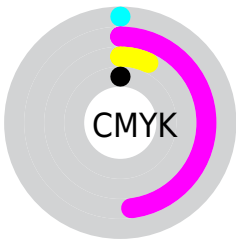
Blue (93%)



Red (100%)

Yellow (52%)

Blue (93%)

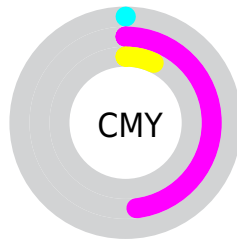


Cyan (0%)

Magenta (48%)

Yellow (7%)

Black (0%)



Cyan (0%)

Magenta (48%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.7679, 44.0912, 84.4537 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 64.7679, 44.0912, 84.4537 by changing the saturation by 10% instead.





 64.7679, 44.0912,  
84.4537


 64.7679, 44.0912,  
84.4537


431.5158,  
363.0803, 529.9160


 47.5369, 30.7422,  
62.8425

 110.7837, 81.3550,  
141.4770

 33.6700, 20.4026,  
45.2737


 140.2992,  
106.0385, 177.7263

 22.8019, 12.6881,  
31.3285


 174.6402,  
135.2691, 219.6920

 14.5672, 7.2141,  
20.5886

214.1721,  
169.4310, 267.7927

 8.6005, 3.5964,  
12.6353

259.2603,  
208.9087, 322.4469

 4.5366, 1.4504,  
7.0501

310.2700,

 2.0099, 0.2535,

254.0865, 384.0731

3.4145

367.5668,  
305.3489, 453.0900

■ 0.6395, 0.0000,  
1.3100

■ 0.0000, 0.0000,  
0.0700

■ 64.7679, 44.0912,  
84.4537

■ 64.7679, 44.0912,  
84.4537

■ 61.1203, 37.7092,  
80.4230

■ 69.2774, 52.1764,  
88.8361

■ 58.2694, 32.9002,  
76.7203

■ 74.7024, 62.0718,  
93.5868

■ 56.1452, 29.5242,  
73.3222

■ 81.0950, 73.8818,  
98.7241

■ 54.6637, 27.4137,  
70.2006

■ 88.5028, 87.7013,  
104.2644

■ 53.7131, 26.3449,  
67.3175

95.0500, 100.0000,  
108.9000

■ 53.5426, 26.1810,  
66.7146

# Harmonies

## Analogous

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



54.8433, 44.0912, 124.7017



64.7679, 44.0912, 84.4537



68.2764, 44.0912, 45.7678

# Triad

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



64.7679, 44.0912, 84.4537



41.1177, 44.0912, 8.3539



25.7497, 44.0912, 90.3292

# Complementary

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



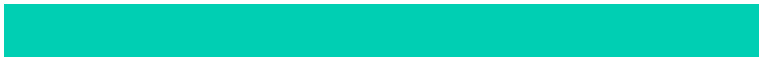
64.7679, 44.0912, 84.4537



51.1018, 78.7742, 42.2198

# 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.



23.3878, 44.0912, 50.3198



64.7679, 44.0912, 84.4537



31.1845, 44.0912, 11.7413

# Square

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



64.7679, 44.0912, 84.4537



53.2130, 44.0912, 10.8736



25.1796, 44.0912, 23.9249



32.3285, 44.0912, 129.0517



# Rectangle

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



64.7679, 44.0912, 84.4537



66.0695, 44.0912, 27.8567



25.1796, 44.0912, 23.9249



24.4971, 44.0912, 76.0890

# Sweetspot

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



64.7688, 44.0930, 84.4546



83.8175, 78.9468, 100.8034



39.2576, 30.6054, 98.4461



17.6090, 16.2809, 21.3245



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.



64.7688, 44.0930, 84.4546



61.3954, 38.1833, 80.7490



57.4356, 41.1597, 45.8384



18.6639, 18.2489, 22.1134



28.0229, 13.6984, 35.1006



2.7598, 1.3463, 3.5825



# Inverse Universe

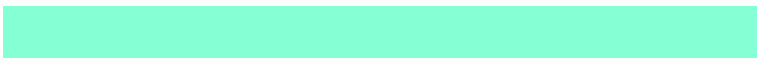
The Inverse Universe completely reimagines the original color for something new.



64.7688, 44.0930, 84.4546



61.3954, 38.1833, 80.7490



57.3557, 81.2758, 75.1523



18.6639, 18.2489, 22.1134



28.0229, 13.6984, 35.1006



2.7598, 1.3463, 3.5825



# Previews

## White Background



This preview shows how the XYZ color 64.7679, 44.0912, 84.4537 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

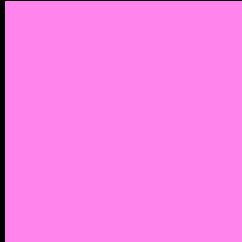
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.7679, 44.0912, 84.4537 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

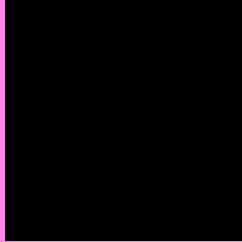
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 64.7679, 44.0912, 84.4537**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.7679, 44.0912, 84.4537.



This preview shows how white text looks on a background with the XYZ color 64.7679, 44.0912,



# 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

64.7679, 44.0912, 84.4537

### Protanopia

46.1425, 44.4593, 100.7573

### Deuteranopia

45.4274, 44.2541, 80.2764



## Tritanopia

55.3454, 43.9787, 39.2899

# Trichromacy



## Original Color

64.7679, 44.0912, 84.4537



## Protanomaly

50.5003, 42.7377, 94.3945



## Deuteranomaly

50.7830, 42.9018, 81.9483



## Tritanomaly

58.1173, 43.7171, 52.9521

# Monochromacy



## Original Color

64.7679, 44.0912, 84.4537



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

49.8305, 44.1779, 61.1592

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.7679, 44.0912, 84.4537 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, 133, 236)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 236)  
}
```

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, 133, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 64.7679, 44.0912, 84.4537 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, 133, 236) }
```



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

```
.border{ border-color:rgb(255, 133, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 133, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 236);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
236) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.7679, 44.0912, 84.4537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 236) }
```

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

```
.background{ background-color: rgb(255,  
133, 236) }
```

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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