

# Converting Colors

XYZ(64.7675, 45.7345, 79.3855)

Have a look what the booklet for  
XYZ(64.7675, 45.7345, 79.3855)  
contains.

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# Color

**XYZ(64.7609, 45.6733,  
79.5313)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8CE5
RGB	255, 140, 229
RGB Percent	100%, 55%, 90%
CMY	0.0000, 0.4510, 0.1020
CMYK	0.00, 0.45, 0.10, 0.00
HSL	314°, 100%, 77%
HSV	314°, 45%, 100%
XYZ	64.7609, 45.6733, 79.5313
YIQ	184.5310, 39.9710, 52.0590

# Conversions

## Conversions Part 2

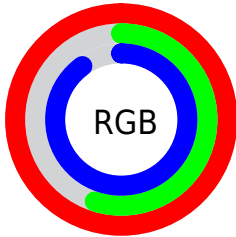
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 140, 229
Decimal	16747749
CIE Lab	73.33, 54.92, -26.10
CIE LCh	73, 60.803, 334.585
Yxy	45.6733, 0.3409, 0.2404
Android (android.graphics.Color)	4294937829 (0xFFFF8CE5)
YUV	184.5310, 21.9232, 61.8013
Hunter-Lab	67.5820, 52.7802, -22.4657

# Details

The XYZ color **64.7609, 45.6733, 79.5313** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **53.4597, 79.8494, 48.6739**, and the grayscale version is **45.7218, 48.1029, 52.3841**.

A 20% lighter version of the original color is **79.0299, 67.9599, 103.5600**, and **33.5563, 21.2499, 41.8682** is the 20% darker color. If you saturate the color by 10%, you get **60.6657, 38.7496, 74.2606**, and if you desaturate by 10%, it is **69.7483, 54.3380, 85.2324**.

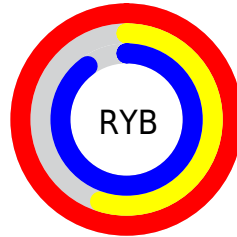
# Distribution



Red (100%)

Green (55%)

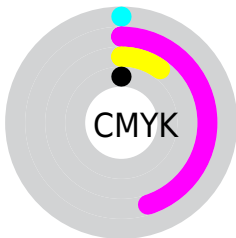
Blue (90%)



Red (100%)

Yellow (55%)

Blue (90%)

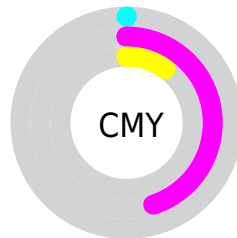


Cyan (0%)

Magenta (45%)

Yellow (10%)

Black (0%)



Cyan (0%)

Magenta (45%)


Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.7609, 45.6733, 79.5313 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 64.7609, 45.6733, 79.5313 by changing the saturation by 10% instead.




 64.7609, 45.6733,  
79.5313


 64.7609, 45.6733,  
79.5313


431.4911,  
369.4936, 513.0169

 47.5312, 31.9881,  
58.8088

 110.7737, 83.7299,  
134.5120

 33.6655, 21.3524,  
42.0403

 140.2874,  
108.8700, 169.6073

 22.7984, 13.3818,  
28.8070


174.6266,  
138.5972, 210.3307

 14.5646, 7.6920,  
18.6906

214.1566,  
173.2959, 257.1006

 8.5987, 3.8985,  
11.2724

259.2426,  
213.3505, 310.3357

 4.5354, 1.6170,  
6.1339

310.2502,

 2.0092, 0.3690,

259.1454, 370.4544

2.8565

367.5445,  
311.0650, 437.8753

■ 0.6391, 0.0000,  
1.0219

■ 0.0000, 0.0000,  
0.0000

■ 64.7609, 45.6733,  
79.5313

■ 64.7609, 45.6733,  
79.5313

■ 60.6657, 38.7496,  
74.2606

■ 69.7483, 54.3380,  
85.2324

■ 57.3986, 33.4401,  
69.3960

■ 75.6795, 64.8473,  
91.3807

■ 54.8921, 29.6099,  
64.9144

■ 82.6060, 77.3037,  
97.9952

■ 53.0665, 27.0999,  
60.7878

■ 90.5746, 91.8003,  
105.0926

■ 51.8234, 25.7137, 95.0500, 100.0000,  
56.9821 108.9000

■ 51.3578, 25.3071,  
55.2096

# Harmonies

## Analogous

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



56.1618, 45.6733, 115.6851



64.7609, 45.6733, 79.5313



67.3060, 45.6733, 45.1694

# Triad

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



64.7609, 45.6733, 79.5313



41.7879, 45.6733, 11.0944



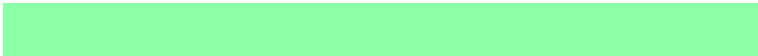
28.5860, 45.6733, 91.2124

# Complementary

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



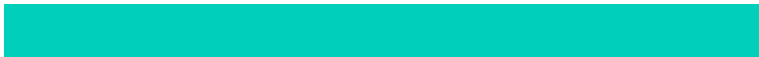
64.7609, 45.6733, 79.5313



53.4597, 79.8494, 48.6739

# 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.



25.9694, 45.6733, 54.5886



64.7609, 45.6733, 79.5313



32.7530, 45.6733, 15.2939

# Square

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



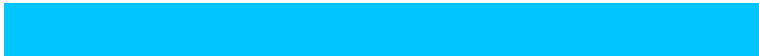
64.7609, 45.6733, 79.5313



52.8486, 45.6733, 13.2476



27.3597, 45.6733, 28.4945



35.1699, 45.6733, 124.1492



# Rectangle

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



64.7609, 45.6733, 79.5313



64.9254, 45.6733, 29.0313



27.3597, 45.6733, 28.4945



27.2673, 45.6733, 78.4785

# Sweetspot

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



64.7620, 45.6752, 79.5322



83.4273, 78.7907, 98.7489



42.9298, 33.9690, 98.9018



17.5132, 16.2426, 20.8198



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.



64.7620, 45.6752, 79.5322



61.0728, 39.4272, 74.8178



58.1220, 43.0192, 44.5666



18.6066, 18.2259, 21.8114



26.8949, 13.2472, 29.1605



2.6596, 1.3062, 3.0551



# Inverse Universe

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



64.7620, 45.6752, 79.5322



61.0728, 39.4272, 74.8178



59.8173, 82.3924, 82.1523



18.6066, 18.2259, 21.8114



26.8949, 13.2472, 29.1605



2.6596, 1.3062, 3.0551



# Previews

## White Background



This preview shows how the XYZ color 64.7609, 45.6733, 79.5313 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

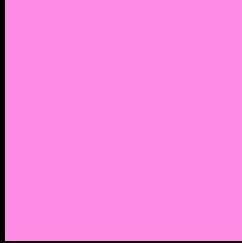
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.7609, 45.6733, 79.5313 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 64.7609, 45.6733, 79.5313**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.7609, 45.6733, 79.5313.



This preview shows how white text looks on a background with the XYZ color 64.7609, 45.6733,



# 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

64.7609, 45.6733, 79.5313

### Protanopia

47.6807, 46.1287, 100.9984

### Deuteranopia

47.1729, 46.1191, 76.2276



## Tritanopia

57.0585, 45.7843, 41.4272

# Trichromacy



## Original Color

64.7609, 45.6733, 79.5313



## Protanomaly

51.6482, 44.4112, 93.0388



## Deuteranomaly

52.0429, 44.9663, 77.1706



## Tritanomaly

59.6082, 45.6350, 53.2437

# Monochromacy



## Original Color

64.7609, 45.6733, 79.5313



## Achromatopsia

46.1135, 48.5150, 52.8328



## Achromatomaly

51.3089, 46.2946, 61.4898

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.7609, 45.6733, 79.5313 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, 140, 229)` looks like.

```
.text, #text, p{  
    color:rgb(255, 140, 229)  
}
```

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, 140, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 140, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 64.7609, 45.6733, 79.5313 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, 140, 229) }
```



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

```
.border{ border-color:rgb(255, 140, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 140, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 140, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 140, 229);  
box-shadow:4px 4px 4px 4px rgb(255, 140,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.7609, 45.6733, 79.5313 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 140, 229) }
```

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

```
.background{ background-color: rgb(255,  
140, 229) }
```

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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