

# Converting Colors

XYZ(59.7550, 32.6083, 97.7523)

Have a look what the booklet for  
XYZ(59.7550, 32.6083, 97.7523)  
contains.

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# Color

**XYZ(59.7708, 32.6675,  
97.7629)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F94DFF
RGB	249, 77, 255
RGB Percent	98%, 30%, 100%
CMY	0.0235, 0.6980, 0.0000
CMYK	0.02, 0.70, 0.00, 0.00
HSL	298°, 100%, 65%
HSV	298°, 70%, 100%
XYZ	59.7708, 32.6675, 97.7629
YIQ	148.7200, 45.3740, 91.8220

# Conversions

## Conversions Part 2

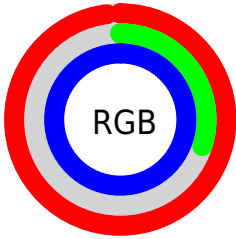
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	249, 77, 255
Decimal	16338431
CIE Lab	63.89, 84.01, -55.20
CIE LCh	64, 100.527, 326.693
Yxy	32.6675, 0.3143, 0.1718
Android (android.graphics.Color)	4294528511 (0xFFFF94DFF)
YUV	148.7200, 52.3960, 87.9456
Hunter-Lab	57.1555, 86.6457, -61.4051

# Details

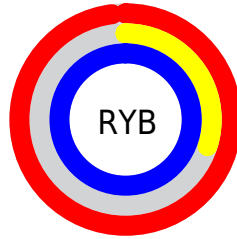
The XYZ color **59.7708, 32.6675, 97.7629** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **40.6677, 73.8952, 19.1425**, and the grayscale version is **28.2253, 29.6952, 32.3380**.

A 20% lighter version of the original color is **68.6681, 47.2362, 100.1060**, and **30.8171, 14.7226, 54.0408** is the 20% darker color. If you saturate the color by 10%, you get **58.0181, 29.6148, 97.2661**, and if you desaturate by 10%, it is **62.2260, 37.1213, 98.4932**.

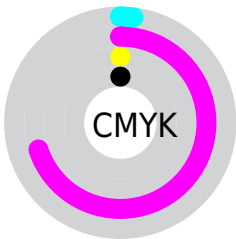
# Distribution



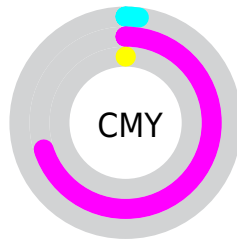
- Red (98%)
- Green (30%)
- Blue (100%)



- Red (98%)
- Yellow (30%)
- Blue (100%)



- Cyan (2%)
- Magenta (70%)
- Yellow (0%)
- Black (0%)




- Cyan (2%)
- Magenta (70%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.7708, 32.6675, 97.7629 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 59.7708, 32.6675, 97.7629 by changing the saturation by 10% instead.




 59.7708, 32.6675,  
97.7629

 59.7708, 32.6675,  
97.7629


413.6007,  
314.1488, 574.1815

 43.4827, 21.8719,  
73.8271

 103.6054, 63.8561,  
160.1044


 30.4602, 13.7628,  
54.1566


 131.8825, 85.0178,  
199.3473

 20.3379, 7.9559,  
38.3329


 164.8867,  
110.4036, 244.5296

 12.7506, 4.0667,  
25.9373

 202.9833,  
140.3980, 296.0699

 7.3329, 1.7110,  
16.5514

246.5376,  
175.3853, 354.3866

 3.7193, 0.4307,  
9.7566

295.9150,

 1.5446, 0.0000,

215.7500, 419.8985

5.1344

351.4810,  
261.8763, 493.0239

■ 0.3559, 0.0000,  
2.2662

■ 0.0000, 0.0000,  
0.7122

■ 59.7708, 32.6675,  
97.7629

■ 59.7708, 32.6675,  
97.7629

■ 58.0181, 29.6148,  
97.2661

■ 62.2260, 37.1213,  
98.4932

■ 56.8773, 27.7848,  
96.9730

■ 65.4532, 43.1178,  
99.4805

■ 56.2104, 26.9006,  
96.8375

■ 69.5174, 50.7862,  
100.7465

■ 56.1988, 26.8865,  
96.8353

■ 74.4758, 60.2409,  
102.3101

■ 80.3806, 71.5863,  
104.1888

■ 87.2799, 84.9187,  
106.3985

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



44.9363, 32.6675, 160.3763



59.7708, 32.6675, 97.7629



66.8773, 32.6675, 40.2543

# Triad

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



59.7708, 32.6675, 97.7629



32.6449, 32.6675, 0.6849



12.5404, 32.6675, 83.2742

# Complementary

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



59.7708, 32.6675, 97.7629



40.6677, 73.8952, 19.1425

# 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.



11.0454, 32.6675, 31.2628



59.7708, 32.6675, 97.7629



20.3663, 32.6675, 1.4985

# Square

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



59.7708, 32.6675, 97.7629



48.5035, 32.6675, 2.1110



13.4172, 32.6675, 7.6535



18.3830, 32.6675, 148.4235



# Rectangle

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



59.7708, 32.6675, 97.7629



65.0585, 32.6675, 17.5617



13.4172, 32.6675, 7.6535



11.6072, 32.6675, 62.9556

# Sweetspot

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



59.7720, 32.6689, 97.7631



79.6209, 70.1227, 103.9463



24.4316, 15.4390, 96.3001



16.6793, 14.3109, 22.1331



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.



59.7720, 32.6689, 97.7631



57.4700, 28.7086, 97.1201



51.6228, 29.6602, 43.5120



18.7286, 18.2673, 22.7888



29.3921, 14.0627, 50.5998



2.8800, 1.3786, 4.9276



# Inverse Universe

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



45.4560, 27.1935, 11.0380



42.5599, 23.0456, 5.0034



44.9159, 75.5360, 44.1576



18.0342, 17.9970, 18.7972



21.5841, 11.1229, 1.1944



2.1099, 1.0863, 0.1602



# Previews

## White Background



This preview shows how the XYZ color 59.7708, 32.6675, 97.7629 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

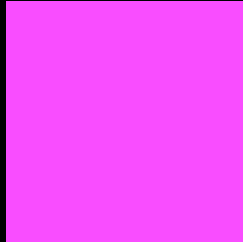
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 59.7708, 32.6675, 97.7629 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 59.7708, 32.6675, 97.7629**

## **Background**



This preview shows how black text looks on a background with the XYZ color 59.7708, 32.6675, 97.7629.



This preview shows how white text looks on a background with the XYZ color 59.7708, 32.6675,

97.7629.

# 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

59.7708, 32.6675, 97.7629

### Protanopia

35.8338, 33.0560, 99.0995

### Deuteranopia

34.0833, 33.1019, 89.3869



## Tritanopia

44.4248, 32.2446, 24.3045

# Trichromacy



## Original Color

59.7708, 32.6675, 97.7629



## Protanomaly

40.0816, 29.4643, 98.1824



## Deuteranomaly

38.6759, 29.2651, 91.6060

## Tritanomaly

48.1869, 31.3073, 43.5476

# Monochromacy



## Original Color

59.7708, 32.6675, 97.7629



## Achromatopsia

28.5667, 30.0544, 32.7292



## Achromatomaly

36.1676, 28.1110, 51.0967

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.7708, 32.6675, 97.7629 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(249, 77, 255)` looks like.

```
.text, #text, p{  
    color:rgb(249, 77, 255)  
}
```

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(249, 77, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 77, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 59.7708, 32.6675, 97.7629 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(249, 77, 255) }
```



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

```
.border{ border-color:rgb(249, 77, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 77, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 77, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 77, 255);  
box-shadow:4px 4px 4px 4px rgb(249, 77,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 59.7708, 32.6675, 97.7629 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 77, 255) }
```

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

```
.background{ background-color: rgb(249, 77,  
255) }
```

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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