

# Converting Colors

XYZ(56.8203, 28.9642, 97.2036)

Have a look what the booklet for  
XYZ(56.8203, 28.9642, 97.2036)  
contains.

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# Color

**XYZ(56.8900, 29.0001,  
97.2069)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F533FF
RGB	245, 51, 255
RGB Percent	96%, 20%, 100%
CMY	0.0392, 0.8000, 0.0000
CMYK	0.04, 0.80, 0.00, 0.00
HSL	297°, 100%, 60%
HSV	297°, 80%, 100%
XYZ	56.8900, 29.0001, 97.2069
YIQ	132.2620, 50.1400, 104.5720

# Conversions

## Conversions Part 2

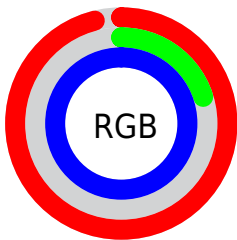
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	245, 51, 255
Decimal	16069631
CIE Lab	60.78, 90.42, -60.20
CIE LCh	61, 108.625, 326.346
Yxy	29.0001, 0.3107, 0.1584
Android (android.graphics.Color)	4294259711 (0xFFFF533FF)
YUV	132.2620, 60.5098, 98.8712
Hunter-Lab	53.8517, 94.3302, -69.3272

# Details

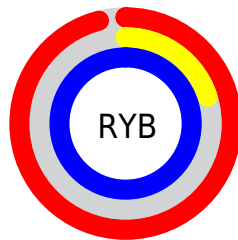
The XYZ color **56.8900, 29.0001, 97.2069** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **38.2828, 72.7515, 15.1579**, and the grayscale version is **21.8047, 22.9403, 24.9819**.

A 20% lighter version of the original color is **66.1274, 42.1547, 99.2591**, and **29.8452, 14.2216, 53.9953** is the 20% darker color. If you saturate the color by 10%, you get **55.6309, 27.1260, 96.9115**, and if you desaturate by 10%, it is **58.7641, 32.0979, 97.7060**.

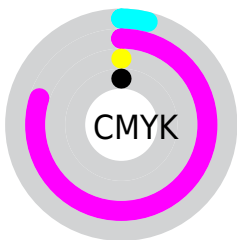
# Distribution



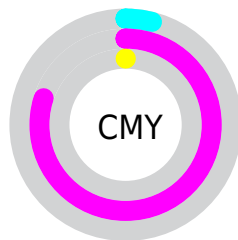
- Red (96%)
- Green (20%)
- Blue (100%)



- Red (96%)
- Yellow (20%)
- Blue (100%)



- Cyan (4%)
- Magenta (80%)
- Yellow (0%)
- Black (0%)




- Cyan (4%)
- Magenta (80%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.8900, 29.0001, 97.2069 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 56.8900, 29.0001, 97.2069 by changing the saturation by 10% instead.





 56.8900, 29.0001,  
97.2069


 56.8900, 29.0001,  
97.2069

403.0578,  
297.2154, 572.3701


 41.1567, 19.0809,  
73.3661

 99.4370, 58.0772,  
159.3317

 28.6298, 11.7287,  
53.7818


 126.9813, 78.0040,  
198.4529


 18.9438, 6.5593,  
38.0352


 159.1935,  
102.0353, 243.5046

 11.7334, 3.1880,  
25.7080

 196.4387,  
130.5557, 294.9053

 6.6333, 1.2307,  
16.3815

 239.0824,  
163.9495, 353.0737

 3.2782, 0.0865,  
9.6372

287.4899,

 1.3025, 0.0000,

202.6012, 418.4283

5.0567

342.0266,  
246.8950, 491.3876

■ 0.1851, 0.0000,  
2.2212

■ 0.0000, 0.0000,  
0.6866

■ 56.8900, 29.0001,  
97.2069

■ 56.8900, 29.0001,  
97.2069

■ 55.6309, 27.1260,  
96.9115

■ 58.7641, 32.0979,  
97.7060

■ 54.8407, 26.1865,  
96.7718

■ 61.3373, 36.5903,  
98.4375

■ 54.8404, 26.1861,  
96.7718

■ 64.6838, 42.6250,  
99.4260

■ 68.8677, 50.3301,  
100.6927

73.9463, 59.8202,  
102.2568

79.9719, 71.1998,  
104.1357

86.9926, 84.5653,  
106.3455

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.



41.4483, 29.0001, 165.0021



56.8900, 29.0001, 97.2069



64.4896, 29.0001, 36.7929

# Triad

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



56.8900, 29.0001, 97.2069



29.3297, 29.0001, 0.0000



9.6945, 29.0001, 80.1584

# Complementary

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



56.8900, 29.0001, 97.2069



38.2828, 72.7515, 15.1579

# 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.



8.3815, 29.0001, 26.8775



56.8900, 29.0001, 97.2069



17.1881, 29.0001, 0.5212

# Square

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



56.8900, 29.0001, 97.2069



45.5058, 29.0001, 1.0057



10.5820, 29.0001, 5.1194



15.0930, 29.0001, 150.5315



# Rectangle

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



56.8900, 29.0001, 97.2069



62.6707, 29.0001, 14.3631



10.5820, 29.0001, 5.1194



8.8615, 29.0001, 58.8933

# Sweetspot

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



56.8911, 29.0014, 97.2071



77.4423, 66.4101, 103.3445



21.0957, 11.2840, 95.6739



16.1223, 13.3585, 21.9787



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.



56.8911, 29.0014, 97.2071



55.1234, 26.4964, 96.8167



49.0535, 26.2803, 37.2338



18.6995, 18.2523, 22.7874



28.6937, 13.7026, 50.5671



2.8198, 1.3476, 4.9248



# Inverse Universe

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



43.2668, 23.9656, 6.7615



41.4975, 21.5401, 2.7396



42.0690, 74.2014, 38.0145



18.0455, 18.0015, 18.8565



21.6001, 11.1294, 1.2789



2.1152, 1.0885, 0.1883



# Previews

## White Background



This preview shows how the XYZ color 56.8900, 29.0001, 97.2069 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

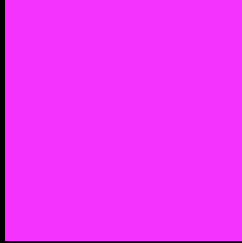
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 56.8900, 29.0001, 97.2069 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 56.8900, 29.0001, 97.2069**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.8900, 29.0001, 97.2069.



This preview shows how white text looks on a background with the XYZ color 56.8900, 29.0001,



# 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

56.8900, 29.0001, 97.2069

### Protanopia

32.4886, 29.2446, 98.5402

### Deuteranopia

30.2414, 29.2445, 87.2700



## Tritanopia

40.8280, 28.6441, 19.9000

# Trichromacy



## Original Color

56.8900, 29.0001, 97.2069



## Protanomaly

36.0204, 24.7614, 97.4887



## Deuteranomaly

33.9303, 24.1715, 90.0660



## Tritanomaly

44.6442, 27.2686, 39.4696

# Monochromacy



## Original Color

56.8900, 29.0001, 97.2069



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

30.0196, 21.7591, 44.2127

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.8900, 29.0001, 97.2069 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(245, 51, 255)` looks like.

```
.text, #text, p{  
    color:rgb(245, 51, 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(245, 51, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 51, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 56.8900, 29.0001, 97.2069 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(245, 51, 255) }
```



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

```
.border{ border-color:rgb(245, 51, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 51, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 51, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 51, 255);  
box-shadow:4px 4px 4px 4px rgb(245, 51,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.8900, 29.0001, 97.2069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 51, 255) }
```

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

```
.background{ background-color: rgb(245, 51,  
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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