

# Converting Colors

XYZ(55.6320, 27.0168, 77.7170)

Have a look what the booklet for  
XYZ(55.6320, 27.0168, 77.7170)  
contains.

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# Color

**XYZ(55.6638, 27.0295,  
77.8847)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF00E7
RGB	255, 0, 231
RGB Percent	100%, 0%, 91%
CMY	0.0000, 0.9998, 0.0941
CMYK	0.00, 1.00, 0.09, 0.00
HSL	306°, 100%, 50%
HSV	306°, 100%, 100%
XYZ	55.6638, 27.0295, 77.8847
YIQ	102.5790, 77.8290, 125.9010

# Conversions

## Conversions Part 2

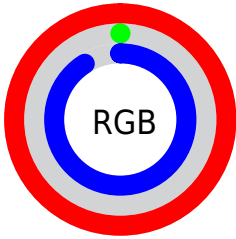
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 231
Decimal	16711911
CIELab	59.00, 95.04, -49.55
CIELCh	59, 107.185, 332.464
Yxy	27.0295, 0.3466, 0.1683
Android (android.graphics.Color)	4294901991 (0xFFFF00E7)
YUV	102.5790, 63.3116, 133.6732
Hunter-Lab	51.9899, 100.1315, -52.4279

# Details

The XYZ color **55.6638, 27.0295, 77.8847** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **35.9260, 71.5865, 12.7909**, and the grayscale version is **12.6132, 13.2701, 14.4511**.

A 20% lighter version of the original color is **64.2403, 38.3806, 98.6301**, and **29.7302, 14.4326, 41.7763** is the 20% darker color. If you saturate the color by 10%, you get **55.6632, 27.0293, 77.8816**, and if you desaturate by 10%, it is **56.3648, 27.8851, 79.8030**.

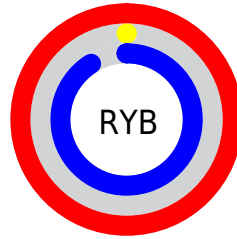
# Distribution



Red (100%)

Green (0%)

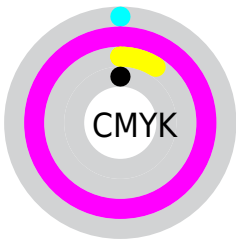
Blue (91%)



Red (100%)

Yellow (0%)

Blue (91%)

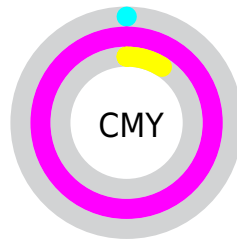


Cyan (0%)

Magenta (100%)

Yellow (9%)

Black (0%)



Cyan (0%)

Magenta (100%)

Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.6638, 27.0295, 77.8847 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 55.6638, 27.0295, 77.8847 by changing the saturation by 10% instead.





 55.6638, 27.0295,  
77.8847


 55.6638, 27.0295,  
77.8847

398.5189,  
287.7999, 507.2927


 40.1694, 17.5954,  
57.4634


 97.6555, 54.9312,  
132.1720


 27.8554, 10.6599,  
40.9656


 124.8835, 74.1676,  
166.8750


 18.3566, 5.8386,  
27.9727


 156.7534, 97.4401,  
207.1757

 11.3075, 2.7472,  
18.0662

 193.6306,  
125.1333, 253.4925

 6.3429, 1.0012,  
10.8276

 235.8803,  
157.6315, 306.2441

 3.0973, 0.0000,  
5.8383

283.8681,

 1.2054, 0.0000,

195.3191, 365.8490

2.6798

337.9591,  
238.5804, 432.7257

■ 0.1107, 0.0000,  
0.9332

■ 0.0000, 0.0000,  
0.0000

■ 55.6638, 27.0295,  
77.8847

■ 55.6638, 27.0295,  
77.8847

■ 55.6632, 27.0293,  
77.8816

■ 56.3648, 27.8851,  
79.8030

■ 57.5374, 29.6765,  
81.9011

■ 59.3247, 32.6898,  
84.2274

■ 61.8140, 37.0995,  
86.8108

■ 65.0785, 43.0522,  
89.6759

■ 69.1823, 50.6758,  
92.8442

■ 74.1827, 60.0849,  
96.3348

■ 80.1319, 71.3841,  
100.1652

■ 87.0782, 84.6697,  
104.3517

# Harmonies

## Analogous

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



41.9928, 27.0295, 144.4270



55.6638, 27.0295, 77.8847



60.6110, 27.0295, 26.3953

# Triad

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



55.6638, 27.0295, 77.8847



24.6078, 27.0295, 0.0000



9.5994, 27.0295, 88.7821

# Complementary

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



55.6638, 27.0295, 77.8847



35.9260, 71.5865, 12.7909

# 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.



7.6838, 27.0295, 32.6900



55.6638, 27.0295, 77.8847



14.2707, 27.0295, 0.7894

# Square

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



55.6638, 27.0295, 77.8847



39.4076, 27.0295, 0.4673



9.0407, 27.0295, 6.9061



15.5954, 27.0295, 153.7038



# Rectangle

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



55.6638, 27.0295, 77.8847



57.2795, 27.0295, 9.3887



9.0407, 27.0295, 6.9061



8.5726, 27.0295, 67.1852

# Sweetspot

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



55.6644, 27.0306, 77.8852



74.1721, 60.0650, 96.3277



18.3661, 7.3837, 95.0649



15.4007, 11.9595, 20.2945



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.



55.6644, 27.0306, 77.8852



55.6632, 27.0293, 77.8816



43.8566, 22.3075, 15.7061



18.7146, 18.2692, 22.3802



29.1155, 14.1355, 40.8544



2.8555, 1.3846, 4.0863



# Inverse Universe

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



55.6644, 27.0306, 77.8852



55.6632, 27.0293, 77.8816



41.1671, 73.6829, 40.3903



18.7146, 18.2692, 22.3802



29.1155, 14.1355, 40.8544



2.8555, 1.3846, 4.0863



# Previews

## White Background



This preview shows how the XYZ color 55.6638, 27.0295, 77.8847 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

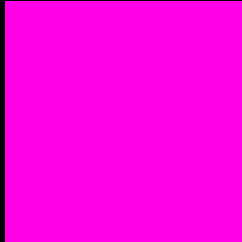
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.6638, 27.0295, 77.8847 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 55.6638, 27.0295, 77.8847**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.6638, 27.0295, 77.8847.



This preview shows how white text looks on a background with the XYZ color 55.6638, 27.0295,



# 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

55.6638, 27.0295, 77.8847

### Protanopia

31.2658, 27.9546, 98.3556

### Deuteranopia

28.3817, 27.5439, 69.4663



## Tritanopia

42.4704, 27.2039, 14.0788

# Trichromacy



## Original Color

55.6638, 27.0295, 77.8847



## Protanomaly

32.2396, 20.0016, 89.3503



## Deuteranomaly

31.5389, 20.1633, 71.3369



## Tritanomaly

44.9817, 24.8446, 29.2128

# Monochromacy



## Original Color

55.6638, 27.0295, 77.8847



## Achromatopsia

12.8919, 13.5633, 14.7705



## Achromatomaly

21.5538, 13.3675, 30.2983

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.6638, 27.0295, 77.8847 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, 0, 231)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 231)  
}
```

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, 0, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 55.6638, 27.0295, 77.8847 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, 0, 231) }
```



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

```
.border{ border-color:rgb(255, 0, 231) }
```

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

Here you see how a box with a 4 pixel rgb(255, 0, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 231);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.6638, 27.0295, 77.8847 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 231) }
```

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

```
.background{ background-color: rgb(255, 0,  
231) }
```

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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