

# Converting Colors

XYZ(55.8840, 27.4255, 78.0950)

Have a look what the booklet for  
XYZ(55.8840, 27.4255, 78.0950)  
contains.

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# Color

**XYZ(55.8643, 27.4304,  
77.9515)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF11E7
RGB	255, 17, 231
RGB Percent	100%, 7%, 91%
CMY	0.0000, 0.9332, 0.0941
CMYK	0.00, 0.93, 0.09, 0.00
HSL	306°, 100%, 53%
HSV	306°, 93%, 100%
XYZ	55.8643, 27.4304, 77.9515
YIQ	112.5580, 73.1540, 117.0100

# Conversions

## Conversions Part 2

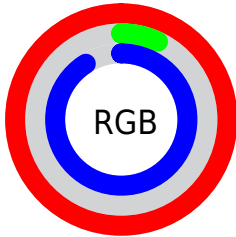
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 17, 231
Decimal	16716263
CIE <sub>Lab</sub>	59.37, 93.95, -48.97
CIE <sub>LCh</sub>	59, 105.949, 332.472
Y <sub>xy</sub>	27.4304, 0.3465, 0.1701
Android (android.graphics.Color)	4294906343 (0xFFFF11E7)
YUV	112.5580, 58.3919, 124.9216
Hunter-Lab	52.3740, 98.7409, -51.5831

# Details

The XYZ color **55.8643, 27.4304, 77.9515** 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 **36.3926, 71.7998, 14.0416**, and the grayscale version is **15.3892, 16.1906, 17.6316**.

A 20% lighter version of the original color is **64.5477, 38.9954, 98.7326**, and **29.7302, 14.4326, 41.7763** is the 20% darker color. If you saturate the color by 10%, you get **55.4223, 26.9329, 76.6132**, and if you desaturate by 10%, it is **56.8769, 28.8700, 80.0947**.

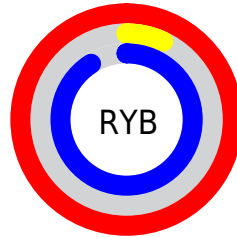
# Distribution



Red (100%)

Green (7%)

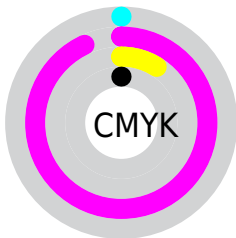
Blue (91%)



Red (100%)

Yellow (7%)

Blue (91%)

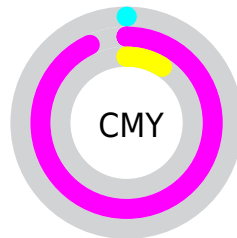


Cyan (0%)

Magenta (93%)

Yellow (9%)

Black (0%)



Cyan (0%)

Magenta (93%)


Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.8643, 27.4304, 77.9515 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 55.8643, 27.4304, 77.9515 by changing the saturation by 10% instead.





 55.8643, 27.4304,  
77.9515


 55.8643, 27.4304,  
77.9515

399.2632,  
289.7350, 507.5257


 40.3307, 17.8967,  
57.5179

 97.9471, 55.5738,  
132.2670

 27.9818, 10.8759,  
41.0091


 125.2270, 74.9522,  
166.9860


 18.4524, 5.9834,  
28.0064


 157.1531, 98.3811,  
207.3039

 11.3769, 2.8350,  
18.0914


 194.0907,  
126.2447, 253.6392

 6.3901, 1.0462,  
10.8455

 236.4051,  
158.9276, 306.4105

 3.1266, 0.0000,  
5.8502

284.4618,

 1.2211, 0.0000,

196.8140, 366.0363

2.6869

338.6260,  
240.2883, 432.9352

■ 0.1229, 0.0000,  
0.9368

■ 0.0000, 0.0000,  
0.0000

■ 55.8643, 27.4304,  
77.9515

■ 55.8643, 27.4304,  
77.9515

■ 55.4223, 26.9329,  
76.6132

■ 56.8769, 28.8700,  
80.0947

■ 58.4704, 31.4628,  
82.4577

■ 60.7394, 35.3980,  
85.0724

■ 63.7610, 40.8298,  
87.9647

67.6021, 47.8917,  
91.1569

72.3219, 56.7025,  
94.6688

77.9743, 67.3696,  
98.5187

84.6087, 79.9921,  
102.7229

92.2712, 94.6619,  
107.2971

# Harmonies

## Analogous

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



42.3046, 27.4304, 143.6104



55.8643, 27.4304, 77.9515



60.7611, 27.4304, 26.8255

# Triad

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



55.8643, 27.4304, 77.9515



24.9869, 27.4304, 0.0000



9.9298, 27.4304, 88.7618

# Complementary

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



55.8643, 27.4304, 77.9515



36.3926, 71.7998, 14.0416

# 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.



7.9891, 27.4304, 33.1302



55.8643, 27.4304, 77.9515



14.6348, 27.4304, 0.9074

# Square

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



55.8643, 27.4304, 77.9515



39.7273, 27.4304, 0.5879



9.3628, 27.4304, 7.2282



15.9702, 27.4304, 152.7754



# Rectangle

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



55.8643, 27.4304, 77.9515



57.4597, 27.4304, 9.7418



9.3628, 27.4304, 7.2282



8.8906, 27.4304, 67.3963

# Sweetspot

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



55.8648, 27.4315, 77.9520



75.2096, 62.1399, 96.6738



19.1587, 8.0899, 95.1595



15.5922, 12.3477, 20.3425



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.



55.8648, 27.4315, 77.9520



55.4223, 26.9329, 76.6132



44.3779, 22.8367, 17.4626



18.7091, 18.2669, 22.3510



28.9915, 14.0859, 40.2013



2.8447, 1.3802, 4.0294



# Inverse Universe

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



55.8648, 27.4315, 77.9520



55.4223, 26.9329, 76.6132



42.3206, 74.1710, 45.2582



18.7091, 18.2669, 22.3510



28.9915, 14.0859, 40.2013



2.8447, 1.3802, 4.0294



# Previews

## White Background



This preview shows how the XYZ color 55.8643, 27.4304, 77.9515 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

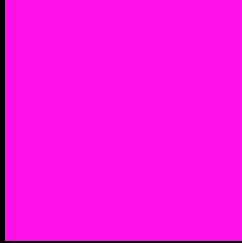
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.8643, 27.4304, 77.9515 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

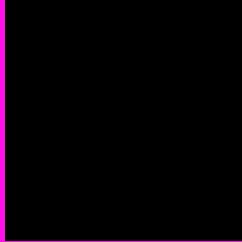
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 55.8643, 27.4304, 77.9515**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.8643, 27.4304, 77.9515.



This preview shows how white text looks on a background with the XYZ color 55.8643, 27.4304,



# 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

55.8643, 27.4304, 77.9515

### Protanopia

31.3586, 28.0024, 98.3600

### Deuteranopia

28.5312, 27.8428, 69.5161



## Tritanopia

42.6028, 27.3946, 14.3515

# Trichromacy



## Original Color

55.8643, 27.4304, 77.9515



## Protanomaly

32.9395, 21.1341, 89.5320



## Deuteranomaly

32.1575, 21.4004, 71.5430



## Tritanomaly

45.4364, 25.6301, 29.7465

# Monochromacy



## Original Color

55.8643, 27.4304, 77.9515



## Achromatopsia

15.6958, 16.5132, 17.9829



## Achromatomaly

24.2422, 15.8484, 33.2338

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.8643, 27.4304, 77.9515 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, 17, 231)` looks like.

```
.text, #text, p{  
    color:rgb(255, 17, 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, 17, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 17, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 55.8643, 27.4304, 77.9515 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, 17, 231) }
```



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

```
.border{ border-color:rgb(255, 17, 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, 17, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 17, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 17, 231);  
box-shadow:4px 4px 4px 4px rgb(255, 17,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.8643, 27.4304, 77.9515 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 17, 231) }
```

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

```
.background{ background-color: rgb(255, 17,  
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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