

# Converting Colors

XYZ(56.6788, 27.4355, 83.2295)

Have a look what the booklet for  
XYZ(56.6788, 27.4355, 83.2295)  
contains.

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# Color

**XYZ(56.6726, 27.4330,  
83.1970)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF00EE
RGB	255, 0, 238
RGB Percent	100%, 0%, 93%
CMY	0.0000, 0.9998, 0.0667
CMYK	0.00, 1.00, 0.07, 0.00
HSL	304°, 100%, 50%
HSV	304°, 100%, 100%
XYZ	56.6726, 27.4330, 83.1970
YIQ	103.3770, 75.5820, 128.0780

# Conversions

## Conversions Part 2

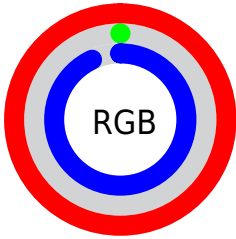
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 238
Decimal	16711918
CIELab	59.37, 95.95, -52.89
CIElCh	59, 109.565, 331.137
Yxy	27.4330, 0.3387, 0.1640
Android (android.graphics.Color)	4294901998 (0xFFFF00EE)
YUV	103.3770, 66.3691, 132.9734
Hunter-Lab	52.3765, 101.4822, -57.5151

# Details

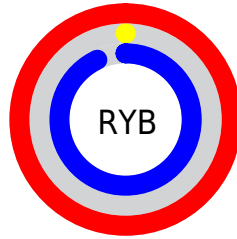
The XYZ color **56.6726, 27.4330, 83.1970** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **35.8621, 71.5609, 12.4547**, and the grayscale version is **12.8148, 13.4821, 14.6820**.

A 20% lighter version of the original color is **64.3416, 38.5832, 98.6639**, and **30.3328, 14.6737, 44.9496** is the 20% darker color. If you saturate the color by 10%, you get **56.6722, 27.4329, 83.1949**, and if you desaturate by 10%, it is **57.2832, 28.2524, 84.6392**.

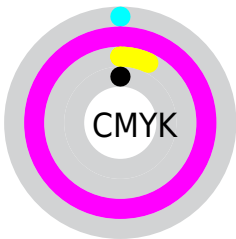
# Distribution



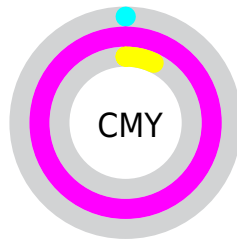
- Red (100%)
- Green (0%)
- Blue (93%)



- Red (100%)
- Yellow (0%)
- Blue (93%)



- Cyan (0%)
- Magenta (100%)
- Yellow (7%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.6726, 27.4330, 83.1970 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 56.6726, 27.4330, 83.1970 by changing the saturation by 10% instead.





 56.6726, 27.4330,  
83.1970


 56.6726, 27.4330,  
83.1970

402.2554,  
289.7476, 525.6310


 40.9816, 17.8987,  
61.8111

 99.1214, 55.5779,  
139.7030


 28.4923, 10.8773,  
44.4453


 126.6099, 74.9573,  
175.6603


 18.8394, 5.9844,  
30.6810


 158.7616, 98.3872,  
217.3117

 11.6576, 2.8356,  
20.0996

 195.9419,  
126.2519, 265.0759

 6.5815, 1.0465,  
12.2827

 238.5160,  
158.9359, 319.3714

 3.2458, 0.0000,  
6.8116

286.8494,

 1.2850, 0.0000,

196.8236, 380.6167

3.2679

341.3074,  
240.2994, 449.2304

■ 0.1720, 0.0000,  
1.2330

■ 0.0000, 0.0000,  
0.0059

■ 56.6726, 27.4330,  
83.1970

■ 56.6726, 27.4330,  
83.1970

■ 56.6722, 27.4329,  
83.1949

■ 57.2832, 28.2524,  
84.6392

■ 58.3630, 30.0066,  
86.2492

■ 60.0552, 32.9817,  
88.0750

■ 62.4471, 37.3524,  
90.1458

■ 65.6119, 43.2650,  
92.4859

■ 69.6135, 50.8476,  
95.1169

■ 74.5094, 60.2147,  
98.0577

■ 80.3517, 71.4710,  
101.3259

■ 87.1887, 84.7128,  
104.9375

# Harmonies

## Analogous

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



42.2319, 27.4330, 152.4298



56.6726, 27.4330, 83.1970



62.3419, 27.4330, 28.3963

# Triad

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



56.6726, 27.4330, 83.1970



25.5545, 27.4330, 0.0000



9.3852, 27.4330, 88.4416

# Complementary

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



56.6726, 27.4330, 83.1970



35.8621, 71.5609, 12.4547

# 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.



7.5928, 27.4330, 31.3936



56.6726, 27.4330, 83.1970



14.6740, 27.4330, 0.6003

# Square

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



56.6726, 27.4330, 83.1970



40.9942, 27.4330, 0.4483



9.1229, 27.4330, 6.2290



15.3005, 27.4330, 156.9148



# Rectangle

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



56.6726, 27.4330, 83.1970



59.2311, 27.4330, 10.0699



9.1229, 27.4330, 6.2290



8.3970, 27.4330, 66.2347

# Sweetspot

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



56.6732, 27.4341, 83.1975



74.4996, 60.1959, 98.0520



18.2825, 7.3406, 95.0610



15.4802, 11.9913, 20.7135



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.



56.6732, 27.4341, 83.1975



56.6722, 27.4329, 83.1949



44.0837, 22.3983, 16.9024



18.7373, 18.2782, 22.4997



29.6348, 14.3432, 43.5887



2.9006, 1.4026, 4.3237



# Inverse Universe

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



56.6732, 27.4341, 83.1975



56.6722, 27.4329, 83.1949



40.8345, 73.5499, 38.6388



18.7373, 18.2782, 22.4997



29.6348, 14.3432, 43.5887



2.9006, 1.4026, 4.3237



# Previews

## White Background



This preview shows how the XYZ color 56.6726, 27.4330, 83.1970 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

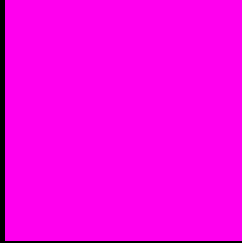
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 56.6726, 27.4330, 83.1970 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

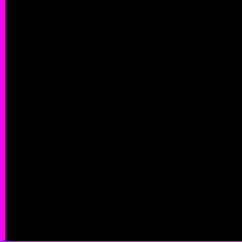
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 56.6726, 27.4330, 83.1970**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.6726, 27.4330, 83.1970.



This preview shows how white text looks on a background with the XYZ color 56.6726, 27.4330,



# 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

56.6726, 27.4330, 83.1970

### Protanopia

31.5994, 28.3445, 98.4133

### Deuteranopia

28.9073, 28.1531, 74.4315



## Tritanopia

42.5305, 27.6070, 14.8915

# Trichromacy



## Original Color

56.6726, 27.4330, 83.1970



## Protanomaly

33.1495, 20.5414, 91.8403



## Deuteranomaly

32.0706, 20.5805, 76.4109



## Tritanomaly

45.1269, 25.0266, 31.3063

# Monochromacy



## Original Color

56.6726, 27.4330, 83.1970



## Achromatopsia

12.8919, 13.5633, 14.7705



## Achromatomaly

21.7163, 13.4325, 31.1539

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.6726, 27.4330, 83.1970 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, 238)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 238)  
}
```

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, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 56.6726, 27.4330, 83.1970 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, 238) }
```



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

```
.border{ border-color:rgb(255, 0, 238) }
```

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, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 238);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.6726, 27.4330, 83.1970 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, 238) }
```

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

```
.background{ background-color: rgb(255, 0,  
238) }
```

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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