

# Converting Colors

XYZ(50.0898, 27.6689, 79.7331)

Have a look what the booklet for  
XYZ(50.0898, 27.6689, 79.7331)  
contains.

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# Color

**XYZ(50.0455, 27.6372,  
79.7876)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E749E9
RGB	231, 73, 233
RGB Percent	91%, 29%, 91%
CMY	0.0941, 0.7137, 0.0863
CMYK	0.01, 0.69, 0.00, 0.09
HSL	299°, 78%, 60%
HSV	299°, 69%, 91%
XYZ	50.0455, 27.6372, 79.7876
YIQ	138.4820, 42.8080, 83.2560

# Conversions

## Conversions Part 2

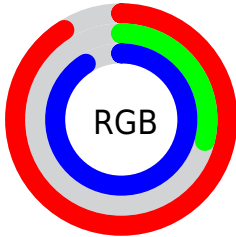
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 73, 233
Decimal	15157737
CIE <sub>Lab</sub>	59.56, 78.06, -50.04
CIE <sub>LCh</sub>	60, 92.721, 327.341
Yxy	27.6372, 0.3178, 0.1755
Android (android.graphics.Color)	4293347817 (0xFFE749E9)
YUV	138.4820, 46.5974, 81.1383
Hunter-Lab	52.5711, 77.9252, -53.1852

# Details

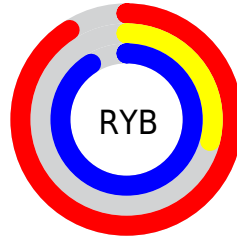
The XYZ color **50.0455, 27.6372, 79.7876** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **33.2440, 60.2554, 16.1829**, and the grayscale version is **24.1590, 25.4172, 27.6793**.

A 20% lighter version of the original color is **67.8151, 45.5302, 99.8217**, and **24.7304, 11.8323, 42.5754** is the 20% darker color. If you saturate the color by 10%, you get **48.6978, 25.0803, 79.3655**, and if you desaturate by 10%, it is **51.9686, 31.3428, 80.4019**.

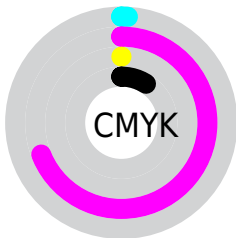
# Distribution



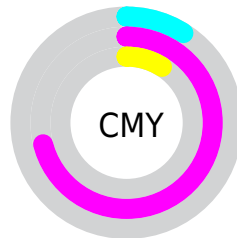
- Red (91%)
- Green (29%)
- Blue (91%)



- Red (91%)
- Yellow (29%)
- Blue (91%)



- Cyan (1%)
- Magenta (69%)
- Yellow (0%)
- Black (9%)




- Cyan (9%)
- Magenta (71%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0455, 27.6372, 79.7876 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 50.0455, 27.6372, 79.7876 by changing the saturation by 10% instead.




 50.0455, 27.6372,  
79.7876


 50.0455, 27.6372,  
79.7876


377.2929,  
290.7292, 513.9046


 35.6675, 18.0524,  
59.0184


 89.4337, 55.9047,  
134.8758

 24.3464, 10.9876,  
42.2079


 115.1746, 75.3561,  
170.0319

 15.7169, 6.0585,  
28.9373


 145.4339, 98.8652,  
210.8207

 9.4136, 2.8807,  
18.7882


 180.5769,  
126.8163, 257.6608

 5.0712, 1.0698,  
11.3421

220.9689,  
159.5939, 310.9707

 2.3243, 0.0000,  
6.1804

266.9753,

 0.8071, 0.0000,

197.5823, 371.1689

2.8845

318.9616,  
241.1660, 438.6741

■ 0.0000, 0.0000,  
1.0360

■ 0.0000, 0.0000,  
0.0000

■ 50.0455, 27.6372,  
79.7876

■ 50.0455, 27.6372,  
79.7876

■ 48.6978, 25.0803,  
79.3655

■ 51.9686, 31.3428,  
80.4019

■ 47.8544, 23.5326,  
79.1112

■ 54.5211, 36.3082,  
81.2258

■ 47.4160, 22.7949,  
78.9919

■ 57.7547, 42.6353,  
82.2766

■ 47.3699, 22.7210,  
78.9801

■ 61.7147, 50.4148,  
83.5695

66.4423, 59.7296,  
85.1182

71.9761, 70.6563,  
86.9356

78.3516, 83.2665,  
89.0336

84.1803, 94.7825,  
90.9492

84.2756, 94.8317,  
90.9537

# Harmonies

## Analogous

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



37.9787, 27.6372, 130.8563



50.0455, 27.6372, 79.7876



55.6571, 27.6372, 33.1723

# Triad

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



50.0455, 27.6372, 79.7876



27.3229, 27.6372, 0.7038



10.9543, 27.6372, 70.3008

# Complementary

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



50.0455, 27.6372, 79.7876



33.2440, 60.2554, 16.1829

# 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.



9.6264, 27.6372, 27.2089



50.0455, 27.6372, 79.7876



17.2527, 27.6372, 1.4969

# Square

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



50.0455, 27.6372, 79.7876



40.3305, 27.6372, 1.9373



11.5456, 27.6372, 7.0312



15.9262, 27.6372, 123.0750



# Rectangle

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



50.0455, 27.6372, 79.7876



54.0308, 27.6372, 14.7164



11.5456, 27.6372, 7.0312



10.1454, 27.6372, 53.5936

# Sweetspot

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



50.0466, 27.6385, 79.7882



80.0360, 70.3367, 103.9657



20.0183, 12.4241, 78.4342



16.7797, 14.3627, 22.1378



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.



50.0466, 27.6385, 79.7882



59.3085, 29.9340, 97.2597



41.9603, 24.4789, 33.8198



15.6951, 15.3036, 19.0489



26.8870, 12.8967, 44.8152



2.1173, 1.0158, 3.5193



# Inverse Universe

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



37.2577, 22.5979, 9.0559



42.7572, 23.4238, 5.1198



37.4195, 61.9078, 38.9740



15.0731, 15.0571, 15.6704



19.0802, 9.8348, 0.9576

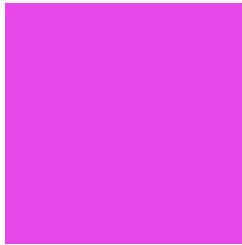


1.5009, 0.7733, 0.0894



# Previews

## White Background



This preview shows how the XYZ color 50.0455, 27.6372, 79.7876 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

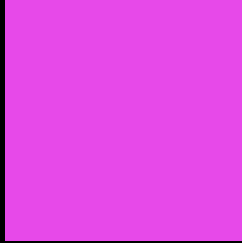
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0455, 27.6372, 79.7876 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

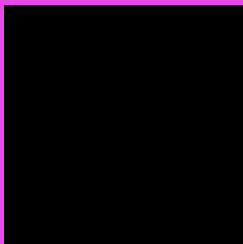
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 50.0455, 27.6372, 79.7876**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.0455, 27.6372, 79.7876.



This preview shows how white text looks on a background with the XYZ color 50.0455, 27.6372,



# 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

50.0455, 27.6372, 79.7876

### Protanopia

31.4526, 28.0509, 98.3644

### Deuteranopia

28.7162, 27.8619, 72.9716



## Tritanopia

37.7594, 27.3653, 20.4314

# Trichromacy



## Original Color

50.0455, 27.6372, 79.7876



## Protanomaly

33.8491, 24.7816, 90.9950



## Deuteranomaly

32.7836, 24.9319, 75.0360



## Tritanomaly

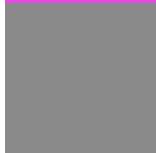
41.0513, 26.7754, 36.2622

# Monochromacy



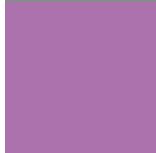
## Original Color

50.0455, 27.6372, 79.7876



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

30.5734, 23.8224, 42.5220

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0455, 27.6372, 79.7876 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(231, 73, 233)` looks like.

```
.text, #text, p{  
    color:rgb(231, 73, 233)  
}
```

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(231, 73, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 73, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0455, 27.6372, 79.7876 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(231, 73, 233) }
```



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

```
.border{ border-color:rgb(231, 73, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 73, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 73, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 73, 233);  
box-shadow:4px 4px 4px 4px rgb(231, 73,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0455, 27.6372, 79.7876 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 73, 233) }
```

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

```
.background{ background-color: rgb(231, 73,  
233) }
```

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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