

# Converting Colors

XYZ(116.5883, 75.8462,  
90.4091)

Have a look what the booklet for  
XYZ(116.5883, 75.8462, 90.4091)  
contains.

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# Color

**XYZ(68.7085, 51.2689,  
87.9359)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9CEF
RGB	255, 156, 239
RGB Percent	100%, 61%, 94%
CMY	0.0000, 0.3882, 0.0627
CMYK	0.00, 0.39, 0.06, 0.00
HSL	310°, 100%, 81%
HSV	310°, 39%, 100%
XYZ	68.7085, 51.2689, 87.9359
YIQ	195.0630, 32.3610, 46.8010

# Conversions

## Conversions Part 2

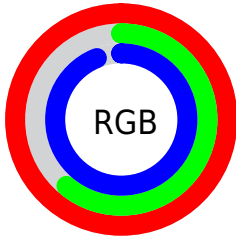
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 156, 239
Decimal	16751855
CIE Lab	76.84, 48.56, -26.18
CIE LCh	77, 55.167, 331.670
Yxy	51.2689, 0.3305, 0.2466
Android (android.graphics.Color)	4294941935 (0xFFFF9CEF)
YUV	195.0630, 21.6609, 52.5647
Hunter-Lab	71.6023, 45.9819, -22.6934

# Details

The XYZ color **68.7085, 51.2689, 87.9359** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **56.9183, 81.5672, 51.7763**, and the grayscale version is **51.7720, 54.4682, 59.3159**.

A 20% lighter version of the original color is **82.8335, 75.5670, 104.8278**, and **36.3246, 24.7920, 47.6706** is the 20% darker color. If you saturate the color by 10%, you get **64.2681, 43.3514, 83.4865**, and if you desaturate by 10%, it is **74.0630, 60.9923, 92.7599**.

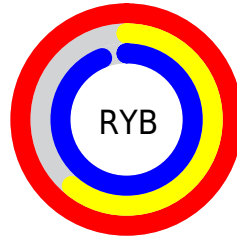
# Distribution



Red (100%)

Green (61%)

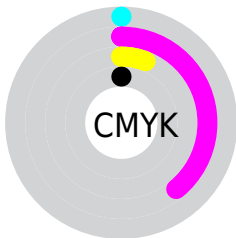
Blue (94%)



Red (100%)

Yellow (61%)

Blue (94%)

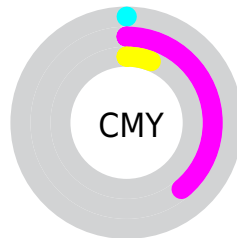


Cyan (0%)

Magenta (39%)

Yellow (6%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.7085, 51.2689, 87.9359 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 68.7085, 51.2689, 87.9359 by changing the saturation by 10% instead.





 68.7085, 51.2689,  
87.9359


 68.7085, 51.2689,  
87.9359


445.3397,  
391.6076, 541.6892

 50.7501, 36.4227,  
65.7059

 116.4015, 92.0521,  
146.3783

 36.2300, 24.7608,  
47.5788

 146.8668,  
118.7579, 183.4278

 24.7828, 15.8989,  
33.1358


182.2318,  
150.1856, 226.2542

 16.0432, 9.4527,  
21.9585

222.8619,  
186.7197, 275.2761

 9.6458, 5.0376,  
13.6284

269.1223,  
228.7446, 330.9120

 5.2252, 2.2693,  
7.7269

321.3785,

 2.4161, 0.7574,

276.6446, 393.5804

3.8354

379.9959,  
330.8041, 463.7000

■ 0.8531, 0.0000,  
1.5355

■ 0.0000, 0.0000,  
0.2442

■ 68.7085, 51.2689,  
87.9359

■ 68.7085, 51.2689,  
87.9359

■ 64.2681, 43.3514,  
83.4865

■ 74.0630, 60.9923,  
92.7599

■ 60.6819, 37.1202,  
79.3892

■ 80.3803, 72.6189,  
97.9730

■ 57.8877, 32.4513,  
75.6235

■ 87.7093, 86.2465,  
103.5928

■ 55.8135, 29.2005,  
72.1650

95.0500, 100.0000,  
108.9000

■ 54.3740, 27.1974,  
68.9846

■ 53.4452, 26.1943,  
66.0408

■ 53.3505, 26.1042,  
65.7030

# Harmonies

## Analogous

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



60.0948, 51.2689, 120.7618



68.7085, 51.2689, 87.9359



71.7773, 51.2689, 54.1577

# Triad

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



68.7085, 51.2689, 87.9359



48.1445, 51.2689, 15.7233



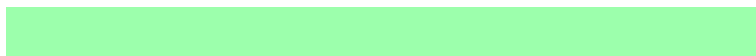
33.5113, 51.2689, 91.9401

# Complementary

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



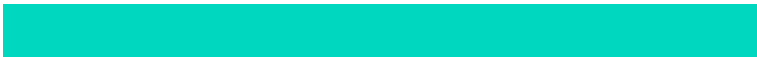
68.7085, 51.2689, 87.9359



56.9183, 81.5672, 51.7763

# 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.



31.2335, 51.2689, 57.5224



68.7085, 51.2689, 87.9359



38.8960, 51.2689, 19.7009

# Square

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



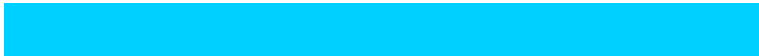
68.7085, 51.2689, 87.9359



58.9323, 51.2689, 18.8727



33.0558, 51.2689, 32.6692



39.7780, 51.2689, 123.5977



# Rectangle

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



68.7085, 51.2689, 87.9359



69.9601, 51.2689, 37.1077



33.0558, 51.2689, 32.6692



32.2978, 51.2689, 79.9632

# Sweetspot

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



68.7096, 51.2709, 87.9369



85.2672, 81.6921, 101.7614



46.7024, 39.6405, 99.7976



18.0424, 17.0978, 21.6227



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.



68.7096, 51.2709, 87.9369



65.0116, 44.6645, 84.2701



62.4953, 48.7852, 55.2133



18.6591, 18.2470, 22.0881



27.9238, 13.6588, 34.5789



2.7511, 1.3428, 3.5365



# Inverse Universe

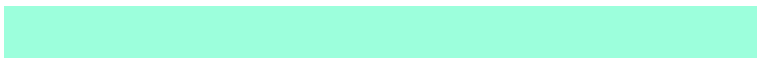
The Inverse Universe completely reimagines the original color for something new.



68.7096, 51.2709, 87.9369



65.0116, 44.6645, 84.2701



62.4364, 83.7745, 80.8342



18.6591, 18.2470, 22.0881



27.9238, 13.6588, 34.5789



2.7511, 1.3428, 3.5365



# Previews

## White Background



This preview shows how the XYZ color 68.7085, 51.2689, 87.9359 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

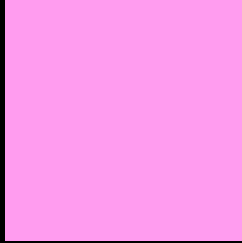
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.7085, 51.2689, 87.9359 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

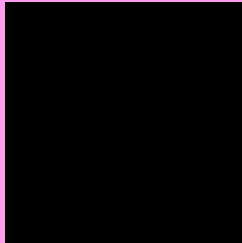
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 68.7085, 51.2689, 87.9359**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.7085, 51.2689, 87.9359.



This preview shows how white text looks on a background with the XYZ color 68.7085, 51.2689, 87.9359.

87.9359.

# 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**

68.7085, 51.2689, 87.9359

**Protanopia**

52.8278, 51.8444, 101.8304

**Deuteranopia**

52.9037, 51.6231, 85.0178



## Tritanopia

61.0545, 51.2979, 50.3996

# Trichromacy



## Original Color

68.7085, 51.2689, 87.9359



## Protanomaly

56.9813, 50.4468, 96.3565



## Deuteranomaly

57.6217, 50.7131, 86.1085



## Tritanomaly

63.7198, 51.3244, 62.4253

# Monochromacy



## Original Color

68.7085, 51.2689, 87.9359



## Achromatopsia

51.8711, 54.5724, 59.4294



## Achromatomaly

56.8970, 52.5026, 68.7632

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.7085, 51.2689, 87.9359 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, 156, 239)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 239)  
}
```

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, 156, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 68.7085, 51.2689, 87.9359 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".

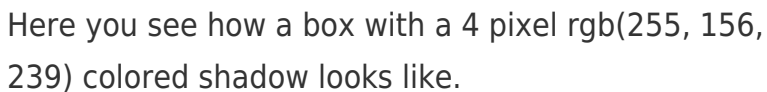
```
.border, #border, table{ border:4px solid rgb(255, 156, 239) }
```



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

```
.border{ border-color:rgb(255, 156, 239) }
```

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



Here you see how a box with a 4 pixel `rgb(255, 156, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 239);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.7085, 51.2689, 87.9359 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 239) }
```

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

```
.background{ background-color: rgb(255,  
156, 239) }
```

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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