

# Converting Colors

XYZ(162.0136, 100.0000,  
94.6270)

Have a look what the booklet for  
XYZ(162.0136, 100.0000, 94.6270)  
contains.

<b>XYZ(69.6651, 52.4671, 90.4598)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(69.6651, 52.4671,  
90.4598)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9FF2
RGB	255, 159, 242
RGB Percent	100%, 62%, 95%
CMY	0.0000, 0.3764, 0.0510
CMYK	0.00, 0.38, 0.05, 0.00
HSL	308°, 100%, 81%
HSV	308°, 38%, 100%
XYZ	69.6651, 52.4671, 90.4598
YIQ	197.1660, 30.5730, 46.1650

# Conversions

## Conversions Part 2

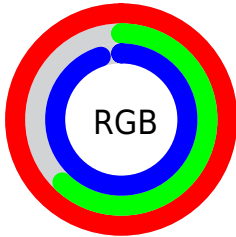
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 159, 242
Decimal	16752626
CIE Lab	77.56, 47.54, -26.71
CIE LCh	78, 54.527, 330.673
Yxy	52.4671, 0.3277, 0.2468
Android (android.graphics.Color)	4294942706 (0xFFFF9FF2)
YUV	197.1660, 22.1032, 50.7204
Hunter-Lab	72.4342, 44.9163, -23.3407

# Details

The XYZ color **69.6651, 52.4671, 90.4598** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **57.5062, 81.8703, 51.8040**, and the grayscale version is **53.0303, 55.7920, 60.7574**.

A 20% lighter version of the original color is **83.5904, 77.0809, 105.0801**, and **36.9405, 25.5186, 49.4330** is the 20% darker color. If you saturate the color by 10%, you get **65.2102, 44.3793, 86.4406**, and if you desaturate by 10%, it is **75.0367, 62.3720, 94.8342**.

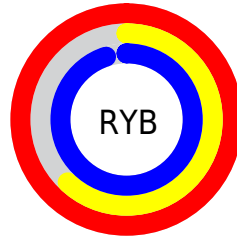
# Distribution



Red (100%)

Green (62%)

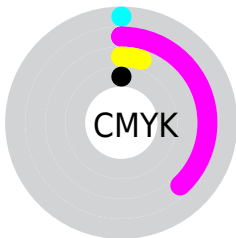
Blue (95%)



Red (100%)

Yellow (62%)

Blue (95%)

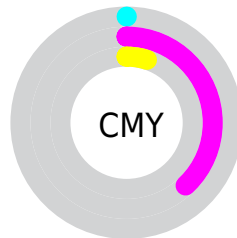


Cyan (0%)

Magenta (38%)

Yellow (5%)

Black (0%)



Cyan (0%)

Magenta (38%)


Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 69.6651, 52.4671, 90.4598 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 69.6651, 52.4671, 90.4598 by changing the saturation by 10% instead.




 69.6651, 52.4671,  
90.4598


 69.6651, 52.4671,  
90.4598


448.6580,  
396.2372, 550.1341

 51.5322, 37.3775,  
67.7862


 117.7599, 93.8197,  
149.9180

 36.8551, 25.4999,  
49.2582

 148.4525,  
120.8516, 187.5397

 25.2685, 16.4499,  
34.4573


184.0624,  
152.6330, 230.9812

 16.4070, 9.8431,  
22.9649

224.9548,  
189.5484, 280.6609

 9.9053, 5.2950,  
14.3626

271.4953,  
231.9821, 336.9976

 5.3980, 2.4214,  
8.2316


324.0491,


 2.5197, 0.8369,


280.3186, 400.4096


4.1536


382.9815,  
334.9421, 471.3156


 0.9052, 0.0000,  
1.7100


 0.0000, 0.0000,  
0.3676


 69.6651, 52.4671,  
90.4598


 69.6651, 52.4671,  
90.4598


 65.2102, 44.3793,  
86.4406


 75.0367, 62.3720,  
94.8342

 61.6123, 37.9901,  
82.7545

 81.3725, 74.1900,  
99.5779

 58.8102, 33.1771,  
79.3815

 88.7213, 88.0180,  
104.7081

 56.7332, 29.7988,  
76.2976

95.0500, 100.0000,  
108.9000

■ 55.2978, 27.6884,  
73.4749

■ 54.3940, 26.6259,  
70.8764

■ 54.2205, 26.4522,  
70.2843

# Harmonies

## Analogous

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



60.9160, 52.4671, 122.8459



69.6651, 52.4671, 90.4598



72.9535, 52.4671, 56.4497

# Triad

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



69.6651, 52.4671, 90.4598



49.6311, 52.4671, 16.5732



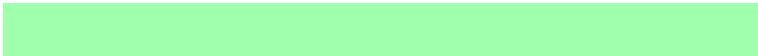
34.4150, 52.4671, 92.0710

# Complementary

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



69.6651, 52.4671, 90.4598



57.5062, 81.8703, 51.8040

# 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.



32.2528, 52.4671, 57.8112



69.6651, 52.4671, 90.4598



40.2445, 52.4671, 20.3830

# Square

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



69.6651, 52.4671, 90.4598



60.4467, 52.4671, 20.0425



34.2297, 52.4671, 33.1914



40.6024, 52.4671, 123.9835



# Rectangle

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



69.6651, 52.4671, 90.4598



71.2896, 52.4671, 39.0189



34.2297, 52.4671, 33.1914



33.2357, 52.4671, 80.1181

# Sweetspot

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



69.6663, 52.4692, 90.4609



86.1398, 83.1486, 102.9427



47.4197, 40.7670, 99.9773



18.2213, 17.3902, 21.8840



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.



69.6663, 52.4692, 90.4609



66.3029, 46.3486, 87.4705



63.3997, 49.9626, 57.4613



18.6806, 18.2556, 22.2012



28.3724, 13.8382, 36.9410



2.7905, 1.3586, 3.7443



# Inverse Universe

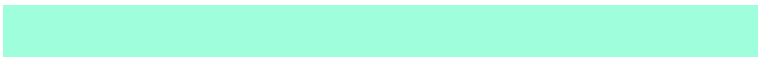
The Inverse Universe completely reimagines the original color for something new.



69.6663, 52.4692, 90.4609



66.3029, 46.3486, 87.4705



62.9514, 84.0484, 80.4780



18.6806, 18.2556, 22.2012



28.3724, 13.8382, 36.9410



2.7905, 1.3586, 3.7443



# Previews

## White Background



This preview shows how the XYZ color 69.6651, 52.4671, 90.4598 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

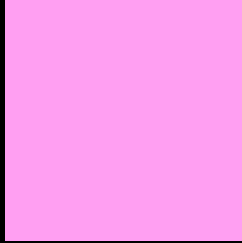
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 69.6651, 52.4671, 90.4598 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

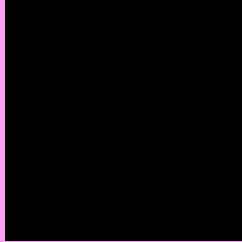
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 69.6651, 52.4671, 90.4598

## Background



This preview shows how black text looks on a background with the XYZ color 69.6651, 52.4671, 90.4598.



This preview shows how white text looks on a background with the XYZ color 69.6651, 52.4671,

90.4598.

# 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

69.6651, 52.4671, 90.4598

### Protanopia

53.6970, 52.9311, 101.9943

### Deuteranopia

54.0083, 52.7722, 87.4603



## Tritanopia

61.9260, 52.5430, 52.2254

# Trichromacy



## Original Color

69.6651, 52.4671, 90.4598



## Protanomaly

58.0040, 51.8388, 97.3912



## Deuteranomaly

58.4535, 51.6733, 88.5545



## Tritanomaly

64.6218, 52.5544, 64.4957

# Monochromacy



## Original Color

69.6651, 52.4671, 90.4598



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

57.8572, 53.5765, 70.2427

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 69.6651, 52.4671, 90.4598 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, 159, 242)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 242)  
}
```

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, 159, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 242) }
```

## Border

The CSS property to change the border of an element to XYZ 69.6651, 52.4671, 90.4598 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, 159, 242) }
```



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

```
.border{ border-color:rgb(255, 159, 242) }
```

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

Here you see how a box with a 4 pixel rgb(255, 159, 242) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 242);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
242) }
```

# Background

The CSS property to change the background color of an element to XYZ 69.6651, 52.4671, 90.4598 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 159, 242) }
```

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

```
.background{ background-color: rgb(255,  
159, 242) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor