

# Converting Colors

XYZ(89.8414, 62.6396,  
168.7474)

Have a look what the booklet for  
XYZ(89.8414, 62.6396, 168.7474)  
contains.

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# Color

**XYZ(72.7451, 55.3903,  
101.4650)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FFA5FF
RGB	255, 165, 255
RGB Percent	100%, 65%, 100%
CMY	0.0000, 0.3529, 0.0000
CMYK	0.00, 0.35, 0.00, 0.00
HSL	300°, 100%, 82%
HSV	300°, 35%, 100%
XYZ	72.7451, 55.3903, 101.4650
YIQ	202.1700, 24.7500, 47.0700

# Conversions

## Conversions Part 2

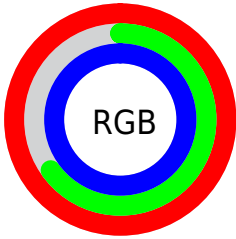
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 165, 255
Decimal	16754175
CIE Lab	79.27, 46.73, -31.10
CIE LCh	79, 56.135, 326.357
Yxy	55.3903, 0.3168, 0.2412
Android (android.graphics.Color)	4294944255 (0xFFFFA5FF)
YUV	202.1700, 26.0452, 46.3319
Hunter-Lab	74.4247, 44.2286, -28.7343

# Details

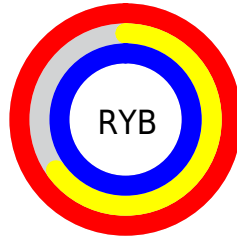
The XYZ color **72.7451, 55.3903, 101.4650** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **58.0703, 82.2368, 48.4128**, and the grayscale version is **56.0781, 58.9986, 64.2494**.

A 20% lighter version of the original color is **85.1465, 80.1929, 105.5988**, and **38.9034, 27.3164, 56.6482** is the 20% darker color. If you saturate the color by 10%, you get **68.5960, 47.0921, 100.0820**, and if you desaturate by 10%, it is **77.8132, 65.5265, 103.1544**.

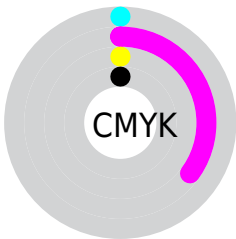
# Distribution



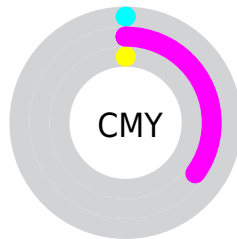
- Red (100%)
- Green (65%)
- Blue (100%)



- Red (100%)
- Yellow (65%)
- Blue (100%)



- Cyan (0%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.7451, 55.3903, 101.4650 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 72.7451, 55.3903, 101.4650 by changing the saturation by 10% instead.




 72.7451, 55.3903,  
101.4650


 72.7451, 55.3903,  
101.4650


459.2484,  
407.3897, 586.1662

 54.0552, 39.7143,  
76.9009


 122.1204, 98.1126,  
165.2384

 38.8766, 27.3159,  
56.6605

 153.5364,  
125.9276, 205.2847

 26.8441, 17.8106,  
40.3252

189.9253,  
158.5578, 251.3289

 17.5921, 10.8141,  
27.4764

231.6522,  
196.3876, 303.7895

 10.7555, 5.9420,  
17.6958

279.0827,  
239.8012, 363.0849

 5.9687, 2.8098,  
10.5646

332.5819,

 2.8666, 1.0333,

289.1832, 429.6338

5.6644

392.5154,  
344.9179, 503.8548

■ 1.0836, 0.0000,  
2.5767

■ 0.0113, 0.0000,  
0.8804

■ 72.7451, 55.3903,  
101.4650

■ 72.7451, 55.3903,  
101.4650

■ 68.5960, 47.0921,  
100.0820

■ 77.8132, 65.5265,  
103.1544

■ 65.3080, 40.5160,  
98.9860

■ 83.8474, 77.5948,  
105.1658

■ 62.8214, 35.5428,  
98.1571

■ 90.8953, 91.6905,  
107.5151

■ 61.0678, 32.0357,  
97.5726

95.0500, 100.0000,  
108.9000

■ 59.9674, 29.8348,  
97.2058

■ 59.4215, 28.7431,  
97.0238

■ 59.2900, 28.4800,  
96.9800

# Harmonies

## Analogous

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



62.8261, 55.3903, 134.4188



72.7451, 55.3903, 101.4650



77.2681, 55.3903, 64.3257

# Triad

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



72.7451, 55.3903, 101.4650



54.0307, 55.3903, 17.2545



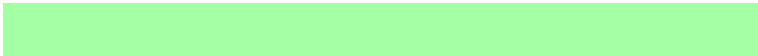
35.5730, 55.3903, 92.1397

# Complementary

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



72.7451, 55.3903, 101.4650



58.0703, 82.2368, 48.4128

# 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.



33.9051, 55.3903, 56.4662



72.7451, 55.3903, 101.4650



43.6311, 55.3903, 20.1385

# Square

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



72.7451, 55.3903, 101.4650



65.5377, 55.3903, 22.0894



36.6399, 55.3903, 32.1295



41.5679, 55.3903, 127.8256



# Rectangle

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



72.7451, 55.3903, 101.4650



76.2008, 55.3903, 44.5186



36.6399, 55.3903, 32.1295



34.5280, 55.3903, 79.4548

# Sweetspot

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



72.7462, 55.3924, 101.4654



86.7454, 83.3908, 106.1318



47.0245, 42.1324, 100.2616



18.3668, 17.4484, 22.6498



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.



72.7462, 55.3924, 101.4654



69.8642, 49.6285, 100.5047



66.3294, 52.8257, 67.6751



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Inverse Universe

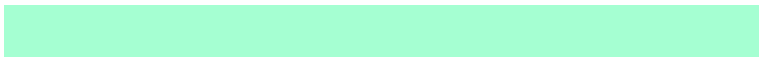
The Inverse Universe completely reimagines the original color for something new.



72.7462, 55.3924, 101.4654



69.8642, 49.6285, 100.5047



62.9115, 84.1733, 73.9060



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 72.7451, 55.3903, 101.4650 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

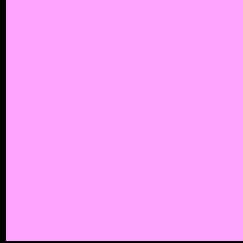
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.7451, 55.3903, 101.4650 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 72.7451, 55.3903, 101.4650

## Background



This preview shows how black text looks on a background with the XYZ color 72.7451, 55.3903, 101.4650.



This preview shows how white text looks on a background with the XYZ color 72.7451, 55.3903,

101.4650.

# 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

72.7451, 55.3903, 101.4650

### Protanopia

56.3875, 55.9535, 102.4359

### Deuteranopia

57.0643, 55.7334, 98.1925



## Tritanopia

63.7926, 55.4207, 57.2042

# Trichromacy



## Original Color

72.7451, 55.3903, 101.4650



## Protanomaly

60.9226, 54.7664, 101.9677



## Deuteranomaly

61.6556, 54.8923, 99.4411



## Tritanomaly

66.6337, 55.1174, 71.4167

# Monochromacy



## Original Color

72.7451, 55.3903, 101.4650



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

61.0675, 56.9878, 76.1878

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.7451, 55.3903, 101.4650 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, 165, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 165, 255)  
}
```

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, 165, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 165, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 72.7451, 55.3903, 101.4650 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, 165, 255) }
```



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

```
.border{ border-color:rgb(255, 165, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 165, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 165, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 165, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 165,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.7451, 55.3903, 101.4650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 165, 255) }
```

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

```
.background{ background-color: rgb(255,  
165, 255) }
```

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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