

# Converting Colors

XYZ(66.8326, 43.5651, 99.4942)

Have a look what the booklet for  
XYZ(66.8326, 43.5651, 99.4942)  
contains.

<b>XYZ(66.8794, 43.6587, 99.5098)</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(66.8794, 43.6587,  
99.5098)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF7FFF
RGB	255, 127, 255
RGB Percent	100%, 50%, 100%
CMY	0.0000, 0.5019, 0.0000
CMYK	0.00, 0.50, 0.00, 0.00
HSL	300°, 100%, 75%
HSV	300°, 50%, 100%
XYZ	66.8794, 43.6587, 99.5098
YIQ	179.8640, 35.2000, 66.9440

# Conversions

## Conversions Part 2

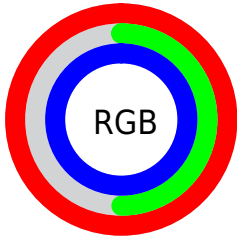
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 127, 255
Decimal	16744447
CIE <sub>Lab</sub>	72.00, 65.41, -42.36
CIE <sub>LCh</sub>	72, 77.932, 327.071
Yxy	43.6587, 0.3184, 0.2079
Android (android.graphics.Color)	4294934527 (0xFFFF7FFF)
YUV	179.8640, 37.0420, 65.8943
Hunter-Lab	66.0747, 65.0430, -43.0396

# Details

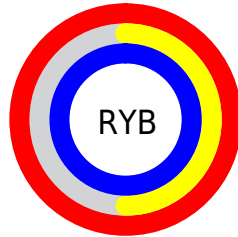
The XYZ color **66.8794, 43.6587, 99.5098** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **48.3444, 77.5649, 32.5042**, and the grayscale version is **43.1052, 45.3500, 49.3862**.

A 20% lighter version of the original color is **76.4305, 62.7610, 102.6935**, and **35.1482, 20.1933, 55.4713** is the 20% darker color. If you saturate the color by 10%, you get **63.9930, 37.8859, 98.5477**, and if you desaturate by 10%, it is **70.6005, 51.1010, 100.7502**.

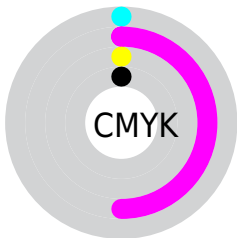
# Distribution



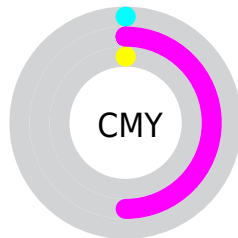
- Red (100%)
- Green (50%)
- Blue (100%)



- Red (100%)
- Yellow (50%)
- Blue (100%)



- Cyan (0%)
- Magenta (50%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (50%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8794, 43.6587, 99.5098 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 66.8794, 43.6587, 99.5098 by changing the saturation by 10% instead.




 66.8794, 43.6587,  
99.5098


 66.8794, 43.6587,  
99.5098


438.9546,  
361.3137, 579.8532


 49.2570, 30.4023,  
75.2766


 113.7983, 80.7039,  
162.5294

 35.0387, 20.1441,  
55.3364


 143.8255,  
105.2615, 202.1528

 23.8594, 12.4999,  
39.2707

 178.7184,  
134.3550, 247.7435

 15.3535, 7.0851,  
26.6610

218.8422,  
168.3686, 299.7198

 9.1558, 3.5154,  
17.0886

264.5624,  
207.6870, 358.5004

 4.9009, 1.4063,  
10.1350

316.2443,

 2.2234, 0.2214,

252.6943, 424.5038

5.3818

374.2532,  
303.7751, 498.1485

■ 0.7550, 0.0000,  
2.4103

■ 0.0000, 0.0000,  
0.7921

■ 66.8794, 43.6587,  
99.5098

■ 66.8794, 43.6587,  
99.5098

■ 63.9930, 37.8859,  
98.5477

■ 70.6005, 51.1010,  
100.7502

■ 61.8748, 33.6497,  
97.8416

■ 75.2116, 60.3231,  
102.2872

■ 60.4524, 30.8047,  
97.3675

■ 80.7656, 71.4312,  
104.1385

■ 59.6378, 29.1755,  
97.0959

■ 87.3109, 84.5219,  
106.3203

■ 59.2900, 28.4800,  
96.9800

94.8926, 99.6851,  
108.8475

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



54.2586, 43.6587, 147.1444



66.8794, 43.6587, 99.5098



72.6400, 43.6587, 51.3793

# Triad

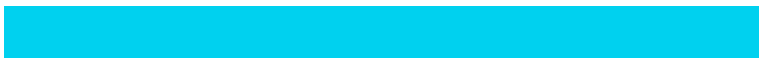
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



66.8794, 43.6587, 99.5098



42.8171, 43.6587, 5.4914



22.6337, 43.6587, 89.2727

# Complementary

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



66.8794, 43.6587, 99.5098



48.3444, 77.5649, 32.5042

# 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.



20.8353, 43.6587, 43.8910



66.8794, 43.6587, 99.5098



30.9107, 43.6587, 7.5951

# Square

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



66.8794, 43.6587, 99.5098



57.0109, 43.6587, 8.7515



23.5175, 43.6587, 17.8008



29.0875, 43.6587, 139.3362



# Rectangle

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



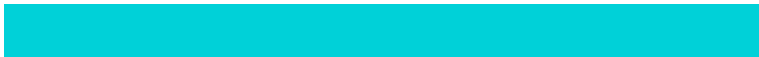
66.8794, 43.6587, 99.5098



71.0633, 43.6587, 29.1130



23.5175, 43.6587, 17.8008



21.5337, 43.6587, 72.4454

# Sweetspot

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



66.8801, 43.6603, 99.5100



84.0385, 77.9769, 105.2295



34.3934, 26.9127, 97.9897



17.6964, 16.1076, 22.4263



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.



66.8801, 43.6603, 99.5100



64.0414, 37.9827, 98.5638



58.2344, 40.2020, 53.9824



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.



66.8801, 43.6603, 99.5100



64.0414, 37.9827, 98.5638



53.9176, 79.7942, 61.8520



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 66.8794, 43.6587, 99.5098 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

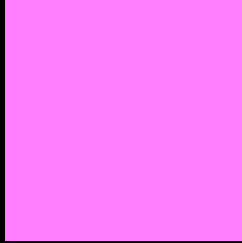
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.8794, 43.6587, 99.5098 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

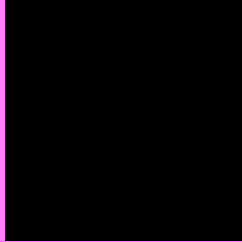
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 66.8794, 43.6587, 99.5098**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.8794, 43.6587, 99.5098.



This preview shows how white text looks on a background with the XYZ color 66.8794, 43.6587,



# 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

66.8794, 43.6587, 99.5098

### Protanopia

45.5805, 43.8817, 100.6754

### Deuteranopia

45.2553, 44.1476, 94.1318



## Tritanopia

54.3015, 43.4406, 39.2411

# Trichromacy



## Original Color

66.8794, 43.6587, 99.5098



## Protanomaly

50.8460, 42.0253, 100.0396



## Deuteranomaly

50.7174, 42.3030, 95.9347

## Tritanomaly

57.8811, 43.0603, 56.8906

# Monochromacy



## Original Color

66.8794, 43.6587, 99.5098



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

49.7395, 43.2601, 64.7600

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8794, 43.6587, 99.5098 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, 127, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 127, 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, 127, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 127, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8794, 43.6587, 99.5098 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, 127, 255) }
```



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

```
.border{ border-color:rgb(255, 127, 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, 127, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 127, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 127, 255); box-shadow:4px 4px 4px 4px rgb(255, 127, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8794, 43.6587, 99.5098 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 127, 255) }
```

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

```
.background{ background-color: rgb(255,  
127, 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](#).

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