

# Converting Colors

XYZ(119.8985, 70.8496,  
180.7638)

Have a look what the booklet for  
XYZ(119.8985, 70.8496, 180.7638)  
contains.

<b>XYZ(67.9540, 45.8079, 99.8680)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(67.9540, 45.8079,  
99.8680)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF87FF
RGB	255, 135, 255
RGB Percent	100%, 53%, 100%
CMY	0.0000, 0.4706, 0.0000
CMYK	0.00, 0.47, 0.00, 0.00
HSL	300°, 100%, 76%
HSV	300°, 47%, 100%
XYZ	67.9540, 45.8079, 99.8680
YIQ	184.5600, 33.0000, 62.7600

# Conversions

## Conversions Part 2

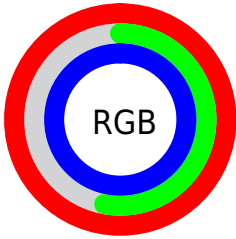
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 135, 255
Decimal	16746495
CIE <sub>Lab</sub>	73.42, 61.66, -40.15
CIE <sub>LCh</sub>	73, 73.575, 326.930
Y <sub>xy</sub>	45.8079, 0.3181, 0.2144
Android (android.graphics.Color)	4294936575 (0xFFFF87FF)
Y <sub>UV</sub>	184.5600, 34.7269, 61.7759
Hunter-Lab	67.6815, 60.7759, -40.1087

# Details

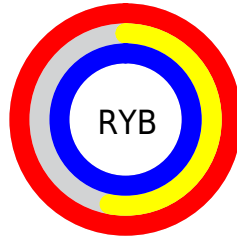
The XYZ color **67.9540, 45.8079, 99.8680** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **50.1262, 78.4208, 35.4186**, and the grayscale version is **45.6718, 48.0503, 52.3267**.

A 20% lighter version of the original color is **78.1396, 66.1793, 103.2632**, and **35.7540, 21.4049, 55.6732** is the 20% darker color. If you saturate the color by 10%, you get **64.8127, 39.5255, 98.8209**, and if you desaturate by 10%, it is **71.9487, 53.7973, 101.1996**.

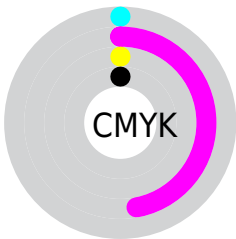
# Distribution



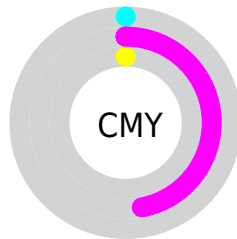
- Red (100%)
- Green (53%)
- Blue (100%)



- Red (100%)
- Yellow (53%)
- Blue (100%)



- Cyan (0%)
- Magenta (47%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (47%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.9540, 45.8079, 99.8680 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 67.9540, 45.8079, 99.8680 by changing the saturation by 10% instead.




 67.9540, 45.8079,  
99.8680


 67.9540, 45.8079,  
99.8680


442.7123,  
370.0358, 581.0125

 50.1339, 32.0943,  
75.5740

 115.3286, 83.9314,  
163.0261

 35.7380, 21.4335,  
55.5787

 145.6138,  
109.1101, 202.7272

 24.4011, 13.4412,  
39.4635


 180.7847,  
138.8793, 248.4012

 15.7578, 7.7331,  
26.8099

221.2066,  
173.6233, 300.4666

 9.4427, 3.9246,  
17.1993

267.2450,  
213.7265, 359.3419

 5.0904, 1.6315,  
10.2133

319.2652,

 2.3357, 0.3787,

259.5734, 425.4456

5.4331

377.6325,  
311.5484, 499.1962

■ 0.8128, 0.0000,  
2.4404

■ 0.0000, 0.0000,  
0.8083

■ 67.9540, 45.8079,  
99.8680

■ 67.9540, 45.8079,  
99.8680

■ 64.8127, 39.5255,  
98.8209

■ 71.9487, 53.7973,  
101.1996

■ 62.4608, 34.8215,  
98.0369

■ 76.8501, 63.6002,  
102.8334

■ 60.8287, 31.5574,  
97.4929

■ 82.7101, 75.3202,  
104.7867

■ 59.8340, 29.5680,  
97.1613

■ 89.5758, 89.0517,  
107.0753

■ 59.3715, 28.6429,  
97.0072

95.0500, 100.0000,  
108.9000

■ 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.



55.8359, 45.8079, 144.4695



67.9540, 45.8079, 99.8680



73.4840, 45.8079, 53.7995

# Triad

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



67.9540, 45.8079, 99.8680



44.8879, 45.8079, 7.1541



24.8781, 45.8079, 89.7115

# Complementary

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



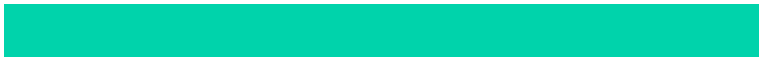
67.9540, 45.8079, 99.8680



50.1262, 78.4208, 35.4186

# 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.



23.0858, 45.8079, 46.1500



67.9540, 45.8079, 99.8680



33.1947, 45.8079, 9.4588

# Square

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



67.9540, 45.8079, 99.8680



58.6105, 45.8079, 10.7780



25.8089, 45.8079, 20.1786



31.3018, 45.8079, 136.8379



# Rectangle

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



67.9540, 45.8079, 99.8680



72.0128, 45.8079, 31.8386



25.8089, 45.8079, 20.1786



23.7770, 45.8079, 73.6951

# Sweetspot

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



67.9548, 45.8095, 99.8683



84.6999, 79.2997, 105.4500



36.7074, 29.7009, 98.4059



17.8265, 16.3679, 22.4697



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.



67.9548, 45.8095, 99.8683



65.1063, 40.1125, 98.9188



59.7554, 42.5298, 56.6911



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Inverse Universe

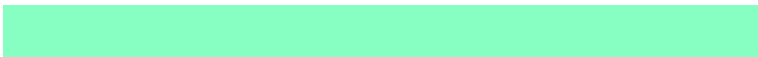
The Inverse Universe completely reimagines the original color for something new.



67.9548, 45.8095, 99.8683



65.1063, 40.1125, 98.9188



55.6032, 80.6116, 64.2605



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 67.9540, 45.8079, 99.8680 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

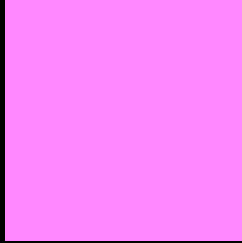
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.9540, 45.8079, 99.8680 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

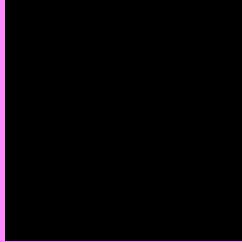
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 67.9540, 45.8079, 99.8680**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.9540, 45.8079, 99.8680.



This preview shows how white text looks on a background with the XYZ color 67.9540, 45.8079,

99.8680.

# 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

67.9540, 45.8079, 99.8680

### Protanopia

47.4880, 46.0294, 100.9894

### Deuteranopia

47.2061, 46.0298, 94.3923



## Tritanopia

56.1717, 45.8001, 42.4389

# Trichromacy



## Original Color

67.9540, 45.8079, 99.8680



## Protanomaly

52.4562, 44.1370, 100.3623



## Deuteranomaly

52.6813, 44.3449, 96.2253



## Tritanomaly

59.6101, 45.2598, 59.6270

# Monochromacy



## Original Color

67.9540, 45.8079, 99.8680



## Achromatopsia

46.1135, 48.5150, 52.8328



## Achromatomaly

52.0299, 45.9922, 67.1079

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.9540, 45.8079, 99.8680 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, 135, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 135, 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, 135, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 135, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 67.9540, 45.8079, 99.8680 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, 135, 255) }
```



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

```
.border{ border-color:rgb(255, 135, 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, 135, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 135, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 135, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 135,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.9540, 45.8079, 99.8680 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 135, 255) }
```

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

```
.background{ background-color: rgb(255,  
135, 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