

# Converting Colors

XYZ(83.7749, 100.0000,  
45.4339)

Have a look what the booklet for  
XYZ(83.7749, 100.0000, 45.4339)  
contains.

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# Color

**XYZ(80.6597, 93.9928,  
44.4631)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F9FF9A
RGB	249, 255, 154
RGB Percent	98%, 100%, 60%
CMY	0.0235, 0.0000, 0.3961
CMYK	0.02, 0.00, 0.40, 0.00
HSL	64°, 100%, 80%
HSV	64°, 40%, 100%
XYZ	80.6597, 93.9928, 44.4631
YIQ	241.6920, 28.8450, -32.6830

# Conversions

## Conversions Part 2

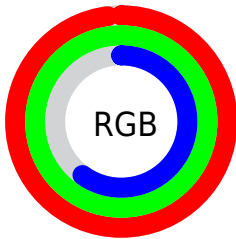
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	154, 255, 160
Decimal	16383898
CIE <sub>Lab</sub>	97.63, -16.40, 47.53
CIE <sub>LCh</sub>	98, 50.282, 109.037
Yxy	93.9928, 0.3681, 0.4290
Android (android.graphics.Color)	4294573978 (0xFFFF9FF9A)
YUV	241.6920, -43.2322, 6.4091
Hunter-Lab	96.9499, -21.1551, 40.6734

# Details

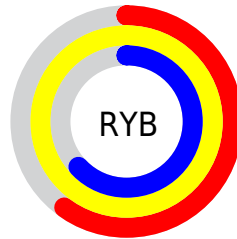
The XYZ color **80.6597, 93.9928, 44.4631** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **44.1039, 37.8061, 99.5805**, and the grayscale version is **84.4686, 88.8676, 96.7768**.

A 20% lighter version of the original color is **88.6329, 97.4331, 75.1078**, and **44.0289, 52.4041, 20.1064** is the 20% darker color. If you saturate the color by 10%, you get **78.2186, 92.9543, 34.4155**, and if you desaturate by 10%, it is **83.5568, 95.2143, 56.8893**.

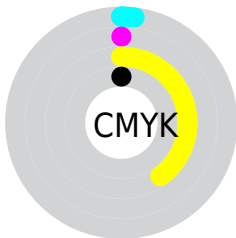
# Distribution



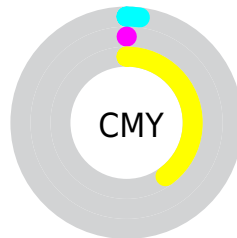
- Red (98%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (63%)



- Cyan (2%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (2%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.6597, 93.9928, 44.4631 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 80.6597, 93.9928, 44.4631 by changing the saturation by 10% instead.





 80.6597, 93.9928,  
44.4631


 80.6597, 93.9928,  
44.4631


485.8560,  
540.9355, 380.6913

 60.5717, 71.2970,  
30.6949


 133.2385,  
152.8724, 83.2240

 44.1308, 52.5846,  
20.1101


 166.4600,  
189.8249, 109.0538

 30.9717, 37.4712,  
12.2902


204.7901,  
232.2985, 139.7412

 20.7290, 25.5726,  
6.8167

248.5940,  
280.6775, 175.7048

 13.0374, 16.5041,  
3.2710

298.2373,  
335.3463, 217.3630

 7.5315, 9.8816,  
1.2346

354.0851,

 3.8459, 5.3205,

396.6893, 265.1345

0.0073

416.5029,  
465.0909, 319.4377

■ 1.6153, 2.4365,  
0.0000

■ 0.4024, 0.8446,  
0.0000

■ 80.6597, 93.9928,  
44.4631

■ 80.6597, 93.9928,  
44.4631

■ 78.2186, 92.9543,  
34.4155

■ 83.5568, 95.2143,  
56.8893

■ 76.2040, 92.0868,  
26.5909

■ 86.9355, 96.6289,  
71.8288

■ 74.5839, 91.3777,  
20.8213

■ 90.8203, 98.2465,  
89.4105

■ 73.3216, 90.8121,  
16.9132

95.0500, 100.0000,  
108.9000

■ 72.3733, 90.3727,  
14.6362

■ 71.6705, 90.0319,  
13.6293

■ 71.6448, 90.0193,  
13.5994

# Harmonies

## Analogous

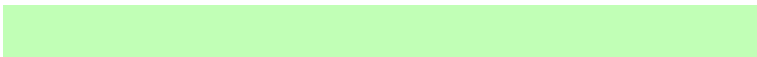
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



94.6726, 93.9928, 42.8360



80.6597, 93.9928, 44.4631



70.1291, 93.9928, 58.8878

# Triad

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



80.6597, 93.9928, 44.4631



72.4863, 93.9928, 174.1245



119.1639, 93.9928, 118.0709

# Complementary

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



80.6597, 93.9928, 44.4631



44.1039, 37.8061, 99.5805

# 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.



111.7670, 93.9928, 163.1803



80.6597, 93.9928, 44.4631



84.2063, 93.9928, 200.8344

# Square

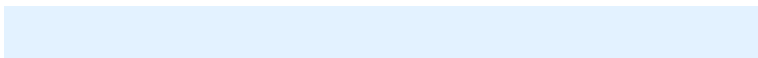
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.6597, 93.9928, 44.4631



65.7701, 93.9928, 130.2572



98.6160, 93.9928, 196.3665



117.9530, 93.9928, 78.7307

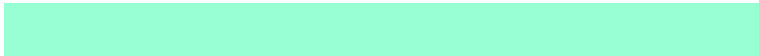


# Rectangle

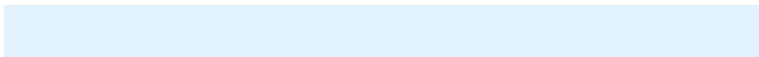
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.6597, 93.9928, 44.4631



66.0282, 93.9928, 76.6600



98.6160, 93.9928, 196.3665



117.5728, 93.9928, 133.2015

# Sweetspot

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



80.6600, 93.9930, 44.4644



89.8432, 97.8404, 84.9556



59.4802, 48.4077, 36.7818



19.1187, 20.8955, 17.6777



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

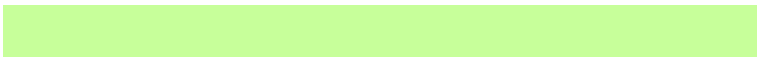
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.6600, 93.9930, 44.4644



78.5813, 93.1093, 35.8759



65.2662, 86.0572, 43.7440



19.4484, 21.0326, 19.1790



37.4818, 47.0607, 7.1081



3.6806, 4.5982, 0.6935



# Inverse Universe

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



44.1039, 37.8061, 99.5805



37.1764, 29.4500, 98.3328



56.0569, 43.9681, 100.1399



17.1029, 17.4292, 22.7127



9.5744, 3.8462, 49.6724

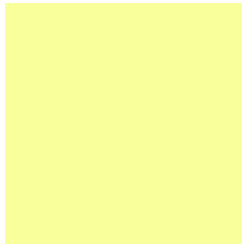


0.9657, 0.3918, 4.8380



# Previews

## White Background



This preview shows how the XYZ color 80.6597, 93.9928, 44.4631 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 80.6597, 93.9928, 44.4631 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

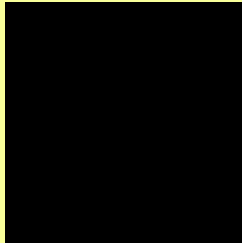
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 80.6597, 93.9928, 44.4631**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.6597, 93.9928, 44.4631.



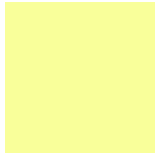
This preview shows how white text looks on a background with the XYZ color 80.6597, 93.9928,



# Color Blindness Simulation

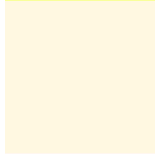
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



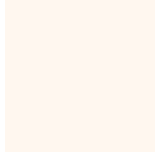
### Original Color

80.6597, 93.9928, 44.4631



### Protanopia

88.3980, 93.8310, 84.6863



### Deuteranopia

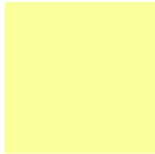
90.0808, 94.0135, 95.0600



## Tritanopia

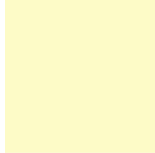
91.9424, 93.7848, 107.8641

# Trichromacy



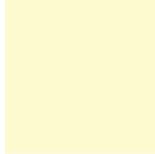
## Original Color

80.6597, 93.9928, 44.4631



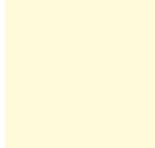
## Protanomaly

85.3140, 94.0005, 67.6802



## Deuteranomaly

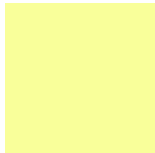
86.0788, 93.8079, 73.2444



## Tritanomaly

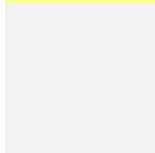
87.0386, 93.6960, 79.8274

# Monochromacy



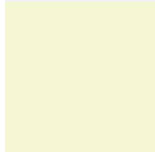
## Original Color

80.6597, 93.9928, 44.4631



## Achromatopsia

84.3971, 88.7923, 96.6948



## Achromatomaly

82.5498, 90.5871, 74.1070

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.6597, 93.9928, 44.4631 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(249, 255, 154)` looks like.

```
.text, #text, p{  
    color:rgb(249, 255, 154)  
}
```

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(249, 255, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 255, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 80.6597, 93.9928, 44.4631 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(249, 255, 154) }
```



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

```
.border{ border-color:rgb(249, 255, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 255, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(249, 255, 154); -webkit-box-shadow:4px 4px 4px 4px rgb(249, 255, 154); box-shadow:4px 4px 4px 4px rgb(249, 255, 154) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.6597, 93.9928, 44.4631 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 255, 154) }
```

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

```
.background{ background-color: rgb(249,  
255, 154) }
```

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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