

# Converting Colors

XYZ(76.3214, 100.0000,  
45.7787)

Have a look what the booklet for  
XYZ(76.3214, 100.0000, 45.7787)  
contains.

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# Color

**XYZ(70.8062, 88.9132,  
44.0019)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DBFF9A
RGB	219, 255, 154
RGB Percent	86%, 100%, 60%
CMY	0.1412, 0.0000, 0.3961
CMYK	0.14, 0.00, 0.40, 0.00
HSL	81°, 100%, 80%
HSV	81°, 40%, 100%
XYZ	70.8062, 88.9132, 44.0019
YIQ	232.7220, 10.9650, -39.0430

# Conversions

## Conversions Part 2

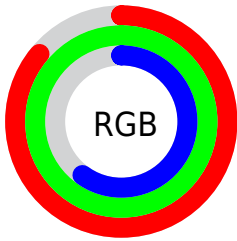
Format	Color
<b>RYB</b>	154, 255, 190
Decimal	14417818
CIELab	95.54, -27.53, 44.45
CIELCh	96, 52.288, 121.774
Yxy	88.9132, 0.3476, 0.4364
Android (android.graphics.Color)	4292607898 (0xFFDBFF9A)
YUV	232.7220, -38.8099, -12.0342
Hunter-Lab	94.2938, -30.9766, 38.3382

# Details

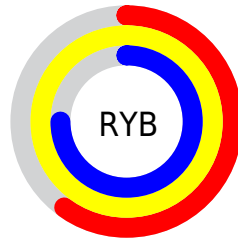
The XYZ color **70.8062, 88.9132, 44.0019** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **50.8419, 41.2796, 99.8958**, and the grayscale version is **77.5192, 81.5563, 88.8148**.

A 20% lighter version of the original color is **88.6329, 97.4331, 75.1078**, and **37.6473, 49.1143, 19.8077** is the 20% darker color. If you saturate the color by 10%, you get **66.2425, 86.7804, 33.8550**, and if you desaturate by 10%, it is **75.9710, 91.3037, 56.5342**.

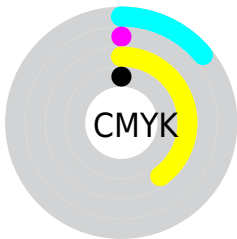
# Distribution



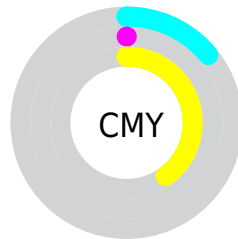
- Red (86%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (75%)



- Cyan (14%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (14%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.8062, 88.9132, 44.0019 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 70.8062, 88.9132, 44.0019 by changing the saturation by 10% instead.





 70.8062, 88.9132,  
44.0019


 70.8062, 88.9132,  
44.0019


452.5981,  
524.4892, 378.7576

 52.4660, 67.0796,  
30.3348


 119.3778,  
145.8279, 82.5231

 37.6024, 49.1493,  
19.8386


 150.3398,  
181.6777, 108.2143

 25.8501, 34.7380,  
12.0949


186.2399,  
222.9685, 138.7506

 16.8436, 23.4611,  
6.6850

227.4434,  
270.0845, 174.5505

 10.2177, 14.9343,  
3.1905

274.3156,  
323.4102, 216.0327

 5.6069, 8.7733,  
1.1927

327.2219,

 2.6459, 4.5936,

383.3299, 263.6155

0.0000

386.5276,  
450.2281, 317.7177

■ 0.9694, 2.0109,  
0.0000

■ 0.0000, 0.6138,  
0.0000

■ 70.8062, 88.9132,  
44.0019

■ 70.8062, 88.9132,  
44.0019

■ 66.2425, 86.7804,  
33.8550

■ 75.9710, 91.3037,  
56.5342

■ 62.2478, 84.8922,  
25.9377

■ 81.7646, 93.9633,  
71.5867

■ 58.7880, 83.2345,  
20.0820

■ 88.2138, 96.9028,  
89.2884

■ 55.8236, 81.7916,  
16.0943

95.0500, 100.0000,  
108.9000

■ 53.3085, 80.5444,  
13.7440

■ 51.1714, 79.4643,  
12.6699

■ 51.0920, 79.4239,  
12.6375

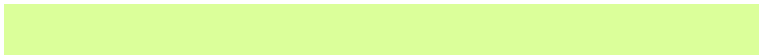
# Harmonies

## Analogous

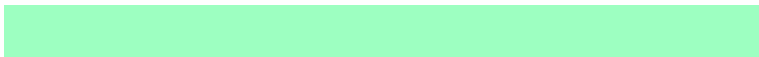
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.6586, 88.9132, 37.3903



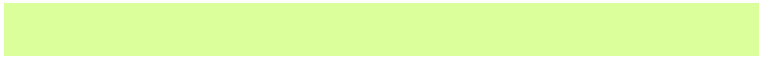
70.8062, 88.9132, 44.0019



62.4693, 88.9132, 64.0614

# Triad

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



70.8062, 88.9132, 44.0019



72.1283, 88.9132, 184.3842



115.1726, 88.9132, 94.3873

# Complementary

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



70.8062, 88.9132, 44.0019



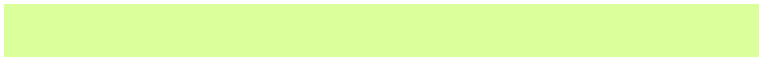
50.8419, 41.2796, 99.8958

# 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.



111.2051, 88.9132, 139.1659



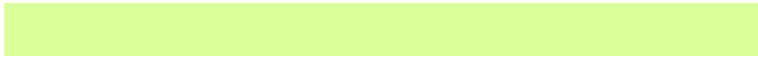
70.8062, 88.9132, 44.0019



85.3658, 88.9132, 199.1299

# Square

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



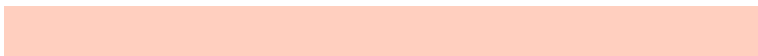
70.8062, 88.9132, 44.0019



63.1697, 88.9132, 144.6288



99.8753, 88.9132, 180.6536

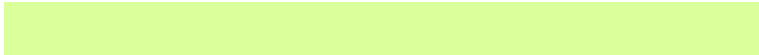


110.1833, 88.9132, 60.8997



# Rectangle

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



70.8062, 88.9132, 44.0019



60.0526, 88.9132, 85.9471



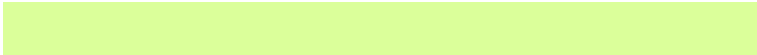
99.8753, 88.9132, 180.6536



114.8404, 88.9132, 108.5547

# Sweetspot

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



70.8065, 88.9133, 44.0032



86.6093, 96.1733, 84.8043



65.3463, 60.1399, 38.7371



18.3540, 20.5013, 17.6419



0.0000, 0.0000, 0.0000

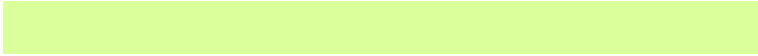


20.3446, 21.4041, 23.3091

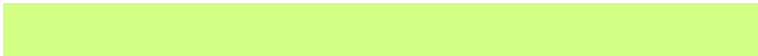


# Same Dimension

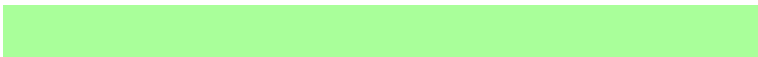
The Same Dimension uses a secret algorithm to generate beautiful new colors.



70.8065, 88.9133, 44.0032



66.9366, 87.1062, 35.3309



57.9879, 82.3051, 43.4033



18.8962, 20.7479, 19.1531



26.8653, 41.5876, 6.6113



2.7349, 4.1106, 0.6493



# Inverse Universe

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



50.8419, 41.2796, 99.8958



44.3391, 33.1425, 98.6680



65.4905, 48.8312, 100.5814



17.6140, 17.6927, 22.7366



11.8273, 5.0077, 49.7778

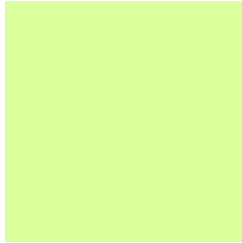


1.2654, 0.5462, 4.8520



# Previews

## White Background



This preview shows how the XYZ color 70.8062, 88.9132, 44.0019 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

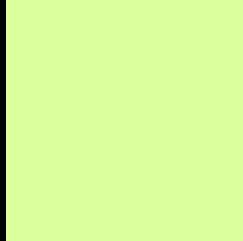
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.8062, 88.9132, 44.0019 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

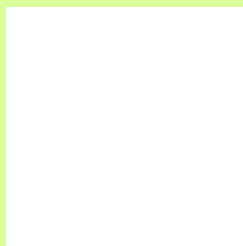
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 70.8062, 88.9132, 44.0019**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.8062, 88.9132, 44.0019.



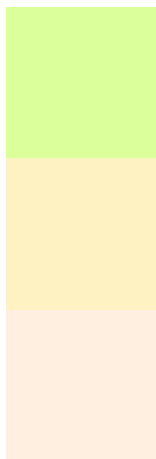
This preview shows how white text looks on a background with the XYZ color 70.8062, 88.9132,



# 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

70.8062, 88.9132, 44.0019

### Protanopia

82.7297, 88.6593, 63.7916

### Deuteranopia

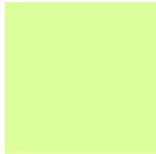
85.5610, 88.3748, 83.0695



## Tritanopia

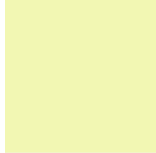
84.3942, 88.5571, 107.2529

# Trichromacy



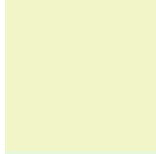
## Original Color

70.8062, 88.9132, 44.0019



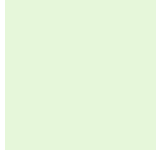
## Protanomaly

78.0154, 88.6534, 55.6478



## Deuteranomaly

79.5792, 88.3056, 66.8832



## Tritanomaly

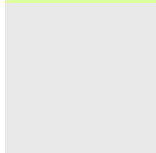
78.5488, 88.4065, 79.2539

# Monochromacy



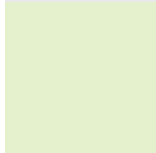
## Original Color

70.8062, 88.9132, 44.0019



## Achromatopsia

77.4512, 81.4847, 88.7368



## Achromatomaly

74.3493, 83.7642, 69.3762

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.8062, 88.9132, 44.0019 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(219, 255, 154)` looks like.

```
.text, #text, p{  
    color:rgb(219, 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(219, 255, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 255, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 70.8062, 88.9132, 44.0019 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(219, 255, 154) }
```



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

```
.border{ border-color:rgb(219, 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(219, 255, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 255, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 255, 154);  
box-shadow:4px 4px 4px 4px rgb(219, 255,  
154) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.8062, 88.9132, 44.0019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 255, 154) }
```

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

```
.background{ background-color: rgb(219,  
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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