

# Converting Colors

XYZ(73.9833, 100.0000,  
45.1739)

Have a look what the booklet for  
XYZ(73.9833, 100.0000, 45.1739)  
contains.

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# Color

**XYZ(67.7220, 87.3423,  
42.9952)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D1FF98
RGB	209, 255, 152
RGB Percent	82%, 100%, 60%
CMY	0.1804, 0.0000, 0.4039
CMYK	0.18, 0.00, 0.40, 0.00
HSL	87°, 100%, 80%
HSV	87°, 40%, 100%
XYZ	67.7220, 87.3423, 42.9952
YIQ	229.5040, 5.6470, -41.7850

# Conversions

## Conversions Part 2

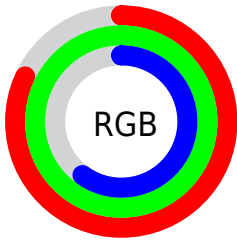
Format	Color
<a href="#">RYB</a>	<a href="#">152, 255, 198</a>
Decimal	<a href="#">13762456</a>
CIELab	<a href="#">94.88, -31.36, 44.45</a>
CIELCh	<a href="#">95, 54.400, 125.208</a>
Yxy	<a href="#">87.3423, 0.3419, 0.4410</a>
Android (android.graphics.Color)	<a href="#">4291952536</a> ( <a href="#">0xFFD1FF98</a> )
YUV	<a href="#">229.5040, -38.2095, -17.9820</a>
Hunter-Lab	<a href="#">93.4571, -34.2031, 38.1434</a>

# Details

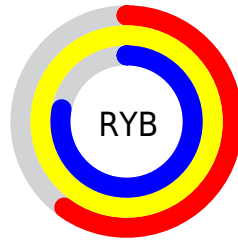
The XYZ color **67.7220, 87.3423, 42.9952** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **52.5681, 41.6836, 99.8828**, and the grayscale version is **75.1171, 79.0290, 86.0626**.

A 20% lighter version of the original color is **88.2625, 97.2850, 73.1574**, and **35.5831, 48.0613, 19.2057** is the 20% darker color. If you saturate the color by 10%, you get **62.7449, 84.9924, 33.0074**, and if you desaturate by 10%, it is **73.3791, 89.9908, 55.3608**.

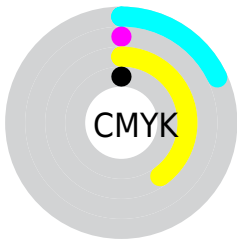
# Distribution



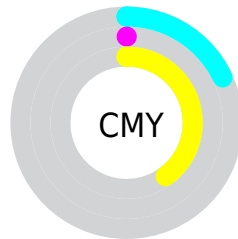
- Red (82%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (78%)



- Cyan (18%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (18%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.7220, 87.3423, 42.9952 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 67.7220, 87.3423, 42.9952 by changing the saturation by 10% instead.





 67.7220, 87.3423,  
42.9952


 67.7220, 87.3423,  
42.9952


441.9026,  
519.3470, 374.5127

 49.9445, 65.7785,  
29.5500


 114.9985,  
143.6412, 80.9899

 35.5869, 48.0926,  
19.2481


 145.2281,  
179.1450, 106.3764

 24.2839, 33.9002,  
11.6711


180.3391,  
220.0643, 136.5805

 15.6703, 22.8170,  
6.4003

220.6969,  
266.7835, 172.0207

 9.3805, 14.4584,  
3.0173

266.6667,  
319.6870, 213.1154

 5.0493, 8.4402,  
1.1035

318.6141,

 2.3113, 4.3779,

379.1592, 260.2833

0.0000

376.9043,  
445.5844, 313.9429

■ 0.8004, 1.8871,  
0.0000

■ 0.0000, 0.5406,  
0.0000

■ 67.7220, 87.3423,  
42.9952

■ 67.7220, 87.3423,  
42.9952

■ 62.7449, 84.9924,  
33.0074

■ 73.3791, 89.9908,  
55.3608

■ 58.4131, 82.9267,  
25.2404

■ 79.7464, 92.9505,  
70.2399

■ 54.6894, 81.1297,  
19.5244

■ 86.8530, 96.2337,  
87.7627

■ 51.5315, 79.5840,  
15.6632

94.7262, 99.8516,  
108.0491

■ 48.8898, 78.2690, 95.0500, 100.0000,  
13.4225 108.9000

■ 46.7639, 77.1927,  
12.4350

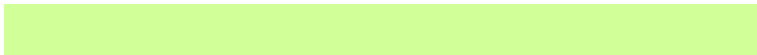
# Harmonies

## Analogous

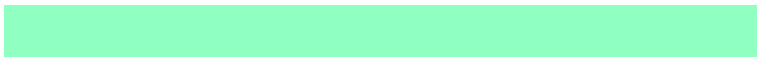
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.4698, 87.3423, 34.9988



67.7220, 87.3423, 42.9952



59.8494, 87.3423, 64.9584

# Triad

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



67.7220, 87.3423, 42.9952



71.6877, 87.3423, 189.4810



114.5672, 87.3423, 87.9209

# Complementary

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



67.7220, 87.3423, 42.9952



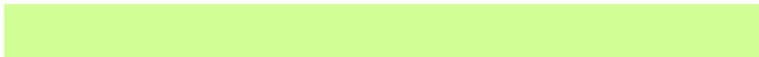
52.5681, 41.6836, 99.8828

# 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.



111.5014, 87.3423, 133.3676



67.7220, 87.3423, 42.9952



85.6158, 87.3423, 201.0249

# Square

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



67.7220, 87.3423, 42.9952



61.9420, 87.3423, 150.0056



100.4555, 87.3423, 178.0514

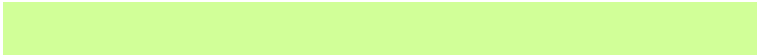


108.3986, 87.3423, 55.5539



# Rectangle

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



67.7220, 87.3423, 42.9952



57.8511, 87.3423, 88.4783



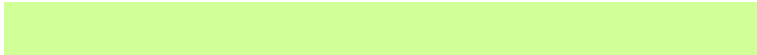
100.4555, 87.3423, 178.0514



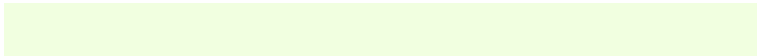
114.5894, 87.3423, 102.0460

# Sweetspot

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



67.7223, 87.3425, 42.9965



85.6585, 95.6831, 84.7598



66.7912, 63.2940, 38.4037



18.1300, 20.3858, 17.6314



0.0000, 0.0000, 0.0000

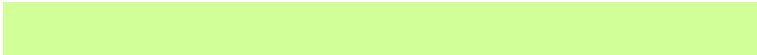


20.3446, 21.4041, 23.3091

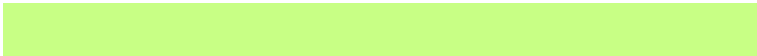


# Same Dimension

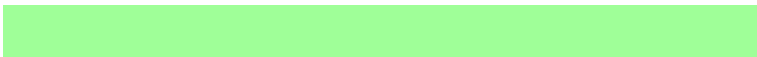
The Same Dimension uses a secret algorithm to generate beautiful new colors.



67.7223, 87.3425, 42.9965



63.8750, 85.5279, 35.1877



55.6999, 81.1447, 42.4338



18.7328, 20.6637, 19.1455



24.6097, 40.4248, 6.5057



2.5220, 4.0009, 0.6393



# Inverse Universe

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



52.5681, 41.6836, 99.8828



46.9413, 34.4840, 98.7897



68.0375, 49.6583, 100.6068



17.7732, 17.7748, 22.7441



13.2156, 5.7234, 49.8428

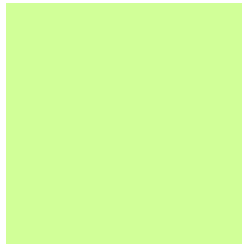


1.4102, 0.6209, 4.8588



# Previews

## White Background



This preview shows how the XYZ color 67.7220, 87.3423, 42.9952 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

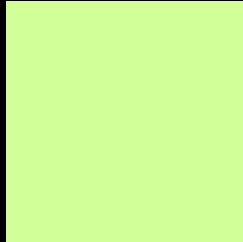
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.7220, 87.3423, 42.9952 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

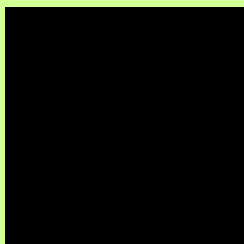
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

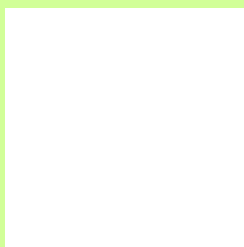
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 67.7220, 87.3423, 42.9952**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.7220, 87.3423, 42.9952.



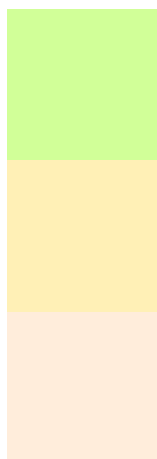
This preview shows how white text looks on a background with the XYZ color 67.7220, 87.3423,

42.9952.

# 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

67.7220, 87.3423, 42.9952

### Protanopia

80.8436, 86.9576, 56.7795

### Deuteranopia

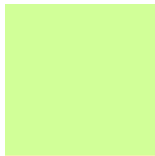
84.3104, 86.9428, 79.3558



## Tritanopia

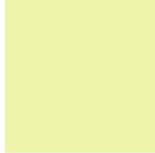
81.8184, 86.7886, 107.0473

# Trichromacy



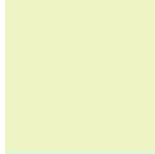
## Original Color

67.7220, 87.3423, 42.9952



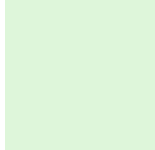
## Protanomaly

75.2630, 86.4222, 51.2425



## Deuteranomaly

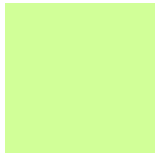
77.4609, 86.8186, 64.3048



## Tritanomaly

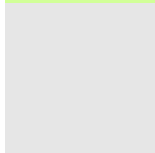
75.7349, 86.5031, 79.0348

# Monochromacy



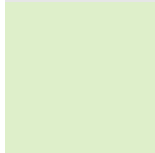
## Original Color

67.7220, 87.3423, 42.9952



## Achromatopsia

75.2129, 79.1298, 86.1723



## Achromatomaly

71.6514, 81.5269, 67.8369

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.7220, 87.3423, 42.9952 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(209, 255, 152)` looks like.

```
.text, #text, p{  
    color:rgb(209, 255, 152)  
}
```

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(209, 255, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 255, 152) }
```

## Border

The CSS property to change the border of an element to XYZ 67.7220, 87.3423, 42.9952 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(209, 255, 152) }
```



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

```
.border{ border-color:rgb(209, 255, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(209, 255, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 255, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 255, 152);  
box-shadow:4px 4px 4px 4px rgb(209, 255,  
152) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.7220, 87.3423, 42.9952 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 255, 152) }
```

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

```
.background{ background-color: rgb(209,  
255, 152) }
```

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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