

# Converting Colors

XYZ(68.5826, 87.7765, 43.4649)

Have a look what the booklet for  
XYZ(68.5826, 87.7765, 43.4649)  
contains.

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# Color

**XYZ(68.6611, 87.8170,  
43.4685)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D4FF99
RGB	212, 255, 153
RGB Percent	83%, 100%, 60%
CMY	0.1686, 0.0000, 0.4000
CMYK	0.17, 0.00, 0.40, 0.00
HSL	85°, 100%, 80%
HSV	85°, 40%, 100%
XYZ	68.6611, 87.8170, 43.4685
YIQ	230.5150, 7.1140, -40.8380

# Conversions

## Conversions Part 2

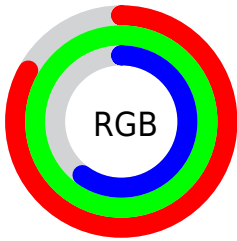
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 255, 196
Decimal	13959065
CIELab	95.08, -30.17, 44.26
CIELCh	95, 53.565, 124.285
Yxy	87.8170, 0.3434, 0.4392
Android (android.graphics.Color)	4292149145 (0xFFD4FF99)
YUV	230.5150, -38.2149, -16.2377
Hunter-Lab	93.7107, -33.2082, 38.0953

# Details

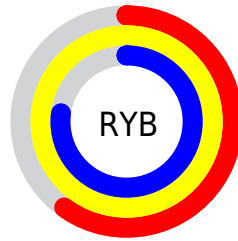
The XYZ color **68.6611, 87.8170, 43.4685** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **52.2074, 41.7395, 99.9126**, and the grayscale version is **75.8657, 79.8166, 86.9203**.

A 20% lighter version of the original color is **88.3852, 97.3341, 73.8035**, and **36.2046, 48.3762, 19.4859** is the 20% darker color. If you saturate the color by 10%, you get **63.7782, 85.5176, 33.3960**, and if you desaturate by 10%, it is **74.2010, 90.4029, 55.9234**.

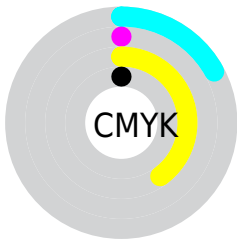
# Distribution



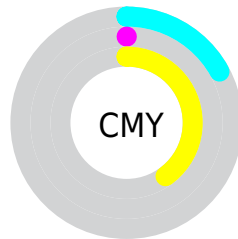
- Red (83%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (77%)



- Cyan (17%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (17%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.6611, 87.8170, 43.4685 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 68.6611, 87.8170, 43.4685 by changing the saturation by 10% instead.





 68.6611, 87.8170,  
43.4685


 68.6611, 87.8170,  
43.4685


445.1749,  
520.9038, 376.5126

 50.7114, 66.1715,  
29.9188


 116.3341,  
144.3024, 81.7113

 36.1991, 48.4117,  
19.5254


 146.7881,  
179.9110, 107.2414

 24.7588, 34.1530,  
11.8699


182.1410,  
220.9429, 137.6021

 16.0252, 23.0112,  
6.5337

222.7580,  
267.7823, 173.2119

 9.6330, 14.6017,  
3.0982

269.0045,  
320.8137, 214.4893

 5.2167, 8.5404,  
1.1450

321.2460,

 2.4110, 4.4426,

380.4215, 261.8528

0.0000

379.8476,  
446.9901, 315.7211

0.8506, 1.9241,  
0.0000

0.0000, 0.5628,  
0.0000

68.6611, 87.8170,  
43.4685

68.6611, 87.8170,  
43.4685

63.7782, 85.5176,  
33.3960

74.2010, 90.4029,  
55.9234

59.5186, 83.4909,  
25.5495

80.4274, 93.2878,  
70.8959

55.8461, 81.7220,  
19.7600

87.3685, 96.4833,  
88.5157

52.7195, 80.1939,  
15.8327

95.0500, 100.0000,  
108.9000

■ 50.0904, 78.8867,  
13.5350

■ 47.8822, 77.7692,  
12.4874

■ 47.8820, 77.7691,  
12.4873

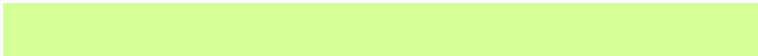
# Harmonies

## Analogous

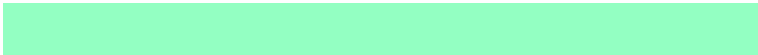
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



81.3919, 87.8170, 35.8533



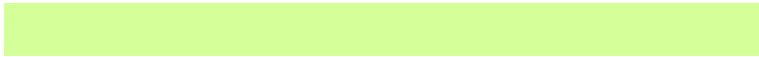
68.6611, 87.8170, 43.4685



60.6872, 87.8170, 64.8609

# Triad

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



68.6611, 87.8170, 43.4685



71.8931, 87.8170, 187.6424



114.6343, 87.8170, 89.7481

# Complementary

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



68.6611, 87.8170, 43.4685



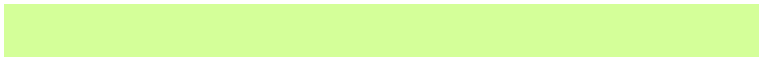
52.2074, 41.7395, 99.9126

# Split Complementary

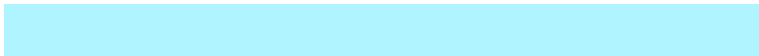
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



111.3353, 87.8170, 134.8234



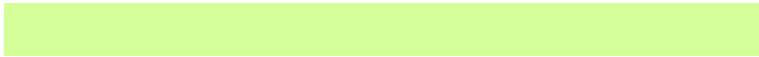
68.6611, 87.8170, 43.4685



85.5779, 87.8170, 200.0073

# Square

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



68.6611, 87.8170, 43.4685



62.3953, 87.8170, 148.3038



100.2626, 87.8170, 178.4030

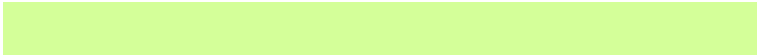


108.8184, 87.8170, 57.1714



# Rectangle

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



68.6611, 87.8170, 43.4685



58.5814, 87.8170, 87.8489



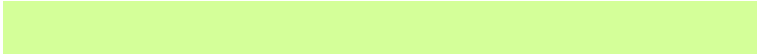
100.2626, 87.8170, 178.4030



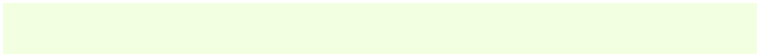
114.5590, 87.8170, 103.8317

# Sweetspot

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



68.6614, 87.8170, 43.4698



85.9210, 95.8184, 84.7721



66.6177, 62.8154, 38.7517



18.1918, 20.4177, 17.6343



0.0000, 0.0000, 0.0000

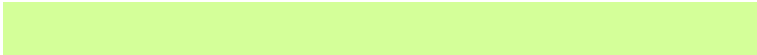


20.3446, 21.4041, 23.3091

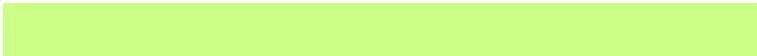


# Same Dimension

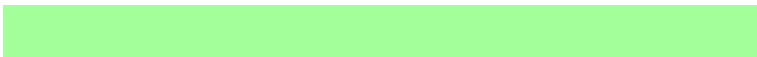
The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.6614, 87.8170, 43.4698



64.7033, 85.9550, 35.2264



56.3094, 81.4494, 42.8917



18.7780, 20.6870, 19.1476



25.1935, 40.7258, 6.5330



2.5778, 4.0297, 0.6419



# Inverse Universe

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



52.2074, 41.7395, 99.9126



46.1983, 34.1010, 98.7550



67.6234, 49.6868, 100.6341



17.7288, 17.7519, 22.7420



12.7930, 5.5055, 49.8230

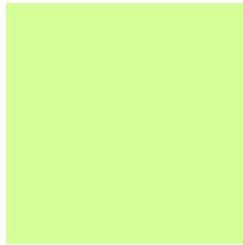


1.3670, 0.5986, 4.8568



# Previews

## White Background



This preview shows how the XYZ color 68.6611, 87.8170, 43.4685 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 68.6611, 87.8170, 43.4685 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

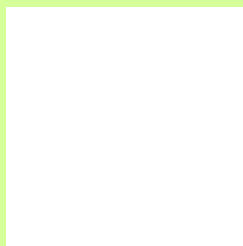
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 68.6611, 87.8170, 43.4685

## Background



This preview shows how black text looks on a background with the XYZ color 68.6611, 87.8170, 43.4685.



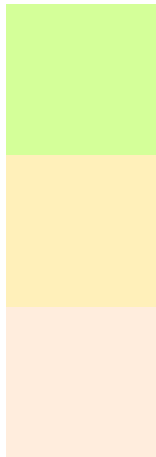
This preview shows how white text looks on a background with the XYZ color 68.6611, 87.8170,

43.4685.

# 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

68.6611, 87.8170, 43.4685

### Protanopia

81.2630, 87.1253, 58.9882

### Deuteranopia

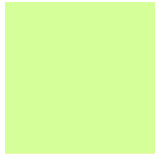
84.5753, 87.0488, 80.7511



## Tritanopia

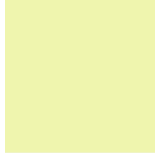
82.7571, 87.7132, 107.1763

# Trichromacy



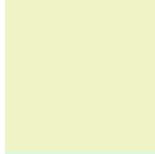
## Original Color

68.6611, 87.8170, 43.4685



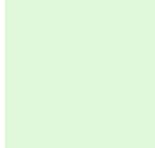
## Protanomaly

75.8890, 86.7115, 52.7816



## Deuteranomaly

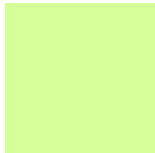
77.9111, 87.0376, 64.9181



## Tritanomaly

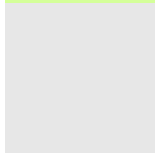
76.6561, 87.4308, 79.1653

# Monochromacy



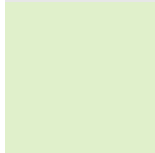
## Original Color

68.6611, 87.8170, 43.4685



## Achromatopsia

75.9547, 79.9103, 87.0223



## Achromatomaly

72.6801, 82.4793, 68.5894

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.6611, 87.8170, 43.4685 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(212, 255, 153)` looks like.

```
.text, #text, p{  
    color:rgb(212, 255, 153)  
}
```

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(212, 255, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 255, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 68.6611, 87.8170, 43.4685 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(212, 255, 153) }
```



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

```
.border{ border-color:rgb(212, 255, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(212, 255, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 255, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 255, 153);  
box-shadow:4px 4px 4px 4px rgb(212, 255,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.6611, 87.8170, 43.4685 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 255, 153) }
```

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

```
.background{ background-color: rgb(212,  
255, 153) }
```

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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