

# Converting Colors

XYZ(68.3575, 84.0020, 46.1996)

Have a look what the booklet for  
XYZ(68.3575, 84.0020, 46.1996)  
contains.

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# Color

**XYZ(68.3091, 83.8465,  
46.3019)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D9F7A1
RGB	217, 247, 161
RGB Percent	85%, 97%, 63%
CMY	0.1490, 0.0313, 0.3686
CMYK	0.12, 0.00, 0.35, 0.03
HSL	81°, 84%, 80%
HSV	81°, 35%, 97%
XYZ	68.3091, 83.8465, 46.3019
YIQ	228.2260, 9.7260, -33.1060

# Conversions

## Conversions Part 2

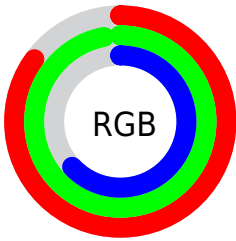
Format	Color
<a href="#">RYB</a>	<a href="#">161, 247, 191</a>
Decimal	<a href="#">14284705</a>
CIELab	<a href="#">93.38, -23.61, 38.19</a>
CIELCh	<a href="#">93, 44.905, 121.727</a>
Yxy	<a href="#">83.8465, 0.3442, 0.4225</a>
Android (android.graphics.Color)	<a href="#">4292474785</a> ( <a href="#">0xFFD9F7A1</a> )
YUV	<a href="#">228.2260, -33.1424, -9.8452</a>
Hunter-Lab	<a href="#">91.5677, -27.0834, 34.1170</a>

# Details

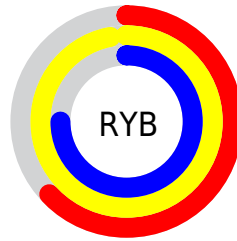
The XYZ color **68.3091, 83.8465, 46.3019** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **51.0226, 43.2838, 93.6659**, and the grayscale version is **74.1402, 78.0013, 84.9434**.

A 20% lighter version of the original color is **89.5244, 97.7898, 79.8025**, and **36.0355, 45.9214, 21.1518** is the 20% darker color. If you saturate the color by 10%, you get **63.8482, 81.7767, 35.8245**, and if you desaturate by 10%, it is **73.3384, 86.1648, 59.0552**.

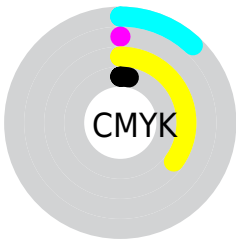
# Distribution



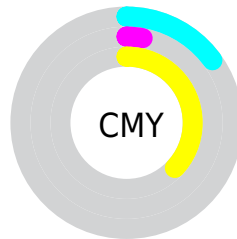
- Red (85%)
- Green (97%)
- Blue (63%)



- Red (63%)
- Yellow (97%)
- Blue (75%)



- Cyan (12%)
- Magenta (0%)
- Yellow (35%)
- Black (3%)




- Cyan (15%)
- Magenta (3%)
- Yellow (37%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.3091, 83.8465, 46.3019 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 68.3091, 83.8465, 46.3019 by changing the saturation by 10% instead.




 68.3091, 83.8465,  
46.3019


 68.3091, 83.8465,  
46.3019


443.9500,  
507.8034, 388.3338

 50.4238, 62.8887,  
32.1337


 115.8337,  
138.7604, 86.0097

 35.9695, 45.7512,  
21.1980


 146.2038,  
173.4854, 112.3864

 24.5806, 32.0495,  
13.0762


181.4661,  
213.5681, 143.6697

 15.8919, 21.3993,  
7.3497

221.9861,  
259.3931, 180.2781

 9.5381, 13.4162,  
3.6000

268.1292,  
311.3448, 222.6302

 5.1537, 7.7158,  
1.4086

320.2606,

 2.3734, 3.9136,

369.8074, 271.1445

0.1484

378.7457,  
435.1655, 326.2395

■ 0.8318, 1.6254,  
0.0000

■ 0.0000, 0.3746,  
0.0000

■ 68.3091, 83.8465,  
46.3019

■ 68.3091, 83.8465,  
46.3019

■ 63.8482, 81.7767,  
35.8245

■ 73.3384, 86.1648,  
59.0552

■ 59.9217, 79.9331,  
27.4835

■ 78.9550, 88.7308,  
74.2022

■ 56.5017, 78.3071,  
21.1324

■ 85.1847, 91.5579,  
91.8590

■ 53.5543, 76.8848,  
16.6039

■ 91.2662, 94.3420,  
108.0073

■ 51.0403, 75.6504,  
13.7036

■ 92.5526, 95.0051,  
108.0675

■ 48.9122, 74.5846,  
12.1923

■ 47.9260, 74.0844,  
11.7738

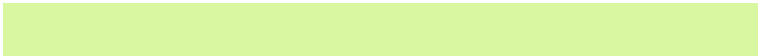
# Harmonies

## Analogous

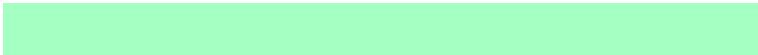
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



79.0095, 83.8465, 40.3940



68.3091, 83.8465, 46.3019



61.2748, 83.8465, 63.7575

# Triad

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



68.3091, 83.8465, 46.3019



69.3870, 83.8465, 161.6126



104.6891, 83.8465, 89.3438

# Complementary

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



68.3091, 83.8465, 46.3019



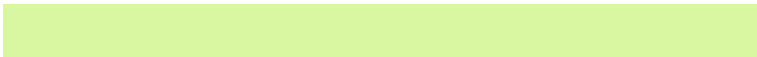
51.0226, 43.2838, 93.6659

# Split Complementary

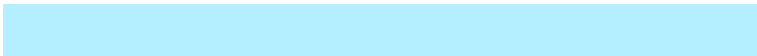
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



101.4766, 83.8465, 125.7995



68.3091, 83.8465, 46.3019



80.3816, 83.8465, 173.2218

# Square

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



68.3091, 83.8465, 46.3019



61.8524, 83.8465, 130.0609



92.2775, 83.8465, 158.7544

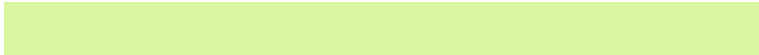


100.6727, 83.8465, 61.1161

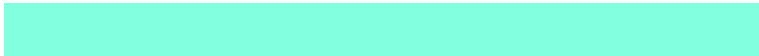


# Rectangle

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



68.3091, 83.8465, 46.3019



59.2172, 83.8465, 82.2285



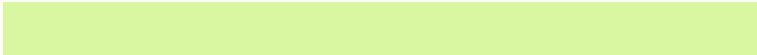
92.2775, 83.8465, 158.7544



104.4175, 83.8465, 101.0037

# Sweetspot

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



68.3112, 83.8502, 46.3037



88.0151, 96.8166, 88.5439



63.1352, 59.0328, 41.7862



18.6389, 20.6319, 18.3877



0.0000, 0.0000, 0.0000

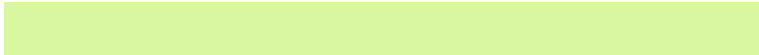


20.3446, 21.4041, 23.3091

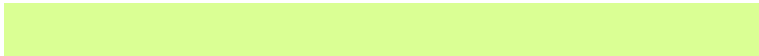


# Same Dimension

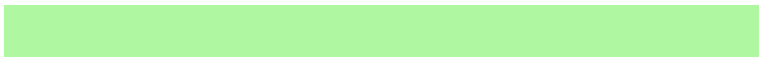
The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.3112, 83.8502, 46.3037



69.9016, 88.5041, 41.3743



57.4506, 78.2514, 45.7954



17.3208, 19.0074, 17.5535



25.5044, 39.2608, 6.2339



2.3523, 3.5077, 0.5531



# Inverse Universe

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



51.0226, 43.2838, 93.6659



48.6960, 38.7158, 99.5141



63.0320, 49.4749, 94.2279



16.1265, 16.2078, 20.8210



11.0552, 4.6735, 46.8574

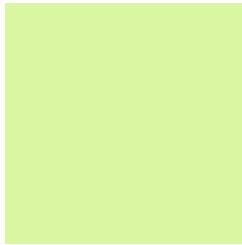


1.0784, 0.4658, 4.1233



# Previews

## White Background



This preview shows how the XYZ color 68.3091, 83.8465, 46.3019 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

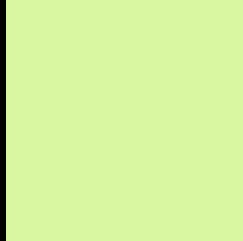
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.3091, 83.8465, 46.3019 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

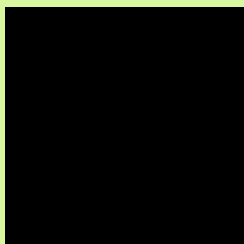
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

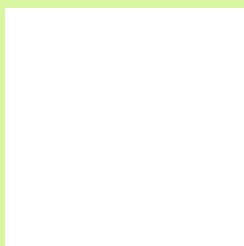
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.3091, 83.8465, 46.3019**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.3091, 83.8465, 46.3019.



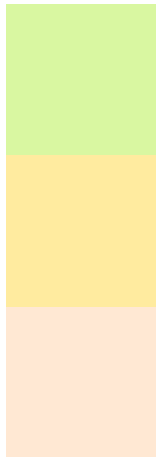
This preview shows how white text looks on a background with the XYZ color 68.3091, 83.8465,



# 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

68.3091, 83.8465, 46.3019

### Protanopia

77.2063, 83.1799, 44.7870

### Deuteranopia

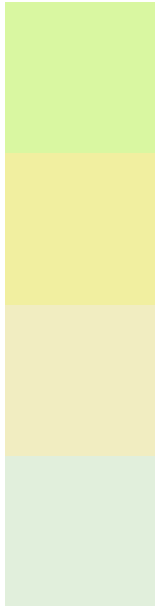
81.8545, 83.6764, 73.4650



## **Tritanopia**

80.2309, 83.3954, 105.6342

# Trichromacy



## Original Color

68.3091, 83.8465, 46.3019

## Protanomaly

73.4873, 82.9718, 45.3997

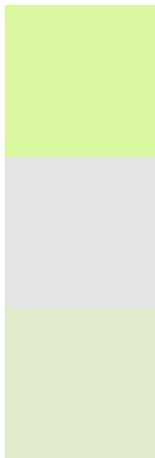
## Deuteranomaly

76.1855, 83.1194, 62.4803

## Tritanomaly

74.8361, 82.9079, 79.7687

# Monochromacy



## Original Color

68.3091, 83.8465, 46.3019

## Achromatopsia

73.7419, 77.5822, 84.4870

## Achromatomaly

71.3479, 79.6236, 68.7352

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.3091, 83.8465, 46.3019 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(217, 247, 161)` looks like.

```
.text, #text, p{  
    color:rgb(217, 247, 161)  
}
```

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(217, 247, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 247, 161) }
```

## Border

The CSS property to change the border of an element to XYZ 68.3091, 83.8465, 46.3019 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(217, 247, 161) }
```



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

```
.border{ border-color:rgb(217, 247, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 247, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 247, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 247, 161);  
box-shadow:4px 4px 4px 4px rgb(217, 247,  
161) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.3091, 83.8465, 46.3019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 247, 161) }
```

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

```
.background{ background-color: rgb(217,  
247, 161) }
```

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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