

# Converting Colors

XYZ(81.5432, 93.9326, 67.8050)

Have a look what the booklet for  
XYZ(81.5432, 93.9326, 67.8050)  
contains.

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# Color

**XYZ(81.6654, 93.9942,  
67.8713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EFFFC7
RGB	239, 255, 199
RGB Percent	94%, 100%, 78%
CMY	0.0627, 0.0000, 0.2196
CMYK	0.06, 0.00, 0.22, 0.00
HSL	77°, 100%, 89%
HSV	77°, 22%, 100%
XYZ	81.6654, 93.9942, 67.8713
YIQ	243.8320, 8.4400, -20.8080

# Conversions

## Conversions Part 2

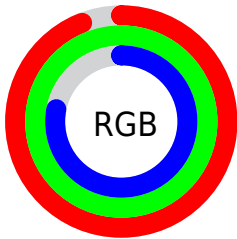
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">199, 255, 215</a>
Decimal	<a href="#">15728583</a>
CIELab	<a href="#">97.63, -14.44, 25.07</a>
CIELCh	<a href="#">98, 28.931, 119.952</a>
Yxy	<a href="#">93.9942, 0.3353, 0.3860</a>
Android (android.graphics.Color)	<a href="#">4293918663 (0xFFEFFF7C)</a>
YUV	<a href="#">243.8320, -22.1022, -4.2377</a>
Hunter-Lab	<a href="#">96.9506, -19.3058, 26.3588</a>

# Details

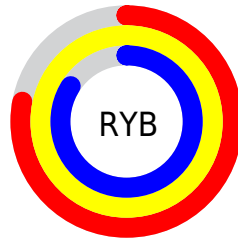
The XYZ color **81.6654, 93.9942, 67.8713** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **66.4987, 62.5152, 103.1695**, and the grayscale version is **86.0204, 90.5002, 98.5547**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **44.8334, 52.4998, 34.5586** is the 20% darker color. If you saturate the color by 10%, you get **76.5378, 91.6648, 53.4495**, and if you desaturate by 10%, it is **87.3894, 96.5738, 84.9133**.

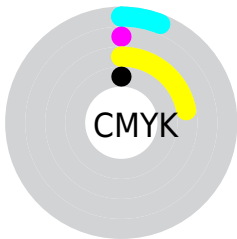
# Distribution



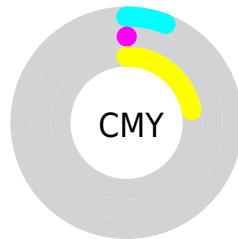
- Red (94%)
- Green (100%)
- Blue (78%)



- Red (78%)
- Yellow (100%)
- Blue (84%)



- Cyan (6%)
- Magenta (0%)
- Yellow (22%)
- Black (0%)




- Cyan (6%)
- Magenta (0%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 81.6654, 93.9942, 67.8713 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 81.6654, 93.9942, 67.8713 by changing the saturation by 10% instead.




 81.6654, 93.9942,  
67.8713

 81.6654, 93.9942,  
67.8713


489.1793,  
540.9400, 471.6256

 61.4029, 71.2981,  
49.3270


134.6430,  
152.8743, 117.8205

 44.8042, 52.5855,  
34.5115


168.0888,  
189.8272, 150.0624

 31.5039, 37.4720,  
23.0063


206.6597,  
232.3010, 187.7074

 21.1365, 25.5732,  
14.3928

250.7212,  
280.6804, 231.1738

 13.3369, 16.5046,  
8.2525

300.6385,  
335.3495, 280.8803

 7.7395, 9.8819,  
4.1669

356.7771,

 3.9791, 5.3207,

396.6929, 337.2454

1.7173

419.5022,  
465.0949, 400.6877

■ 1.6903, 2.4366,  
0.3726

■ 0.4502, 0.8446,  
0.0000

■ 81.6654, 93.9942,  
67.8713

■ 81.6654, 93.9942,  
67.8713

■ 76.5378, 91.6648,  
53.4495

■ 87.3894, 96.5738,  
84.9133

■ 71.9792, 89.5742,  
41.5137

■ 93.7323, 99.4124,  
104.6926

■ 67.9621, 87.7114,  
31.9239

■ 95.0500, 100.0000,  
108.9000

■ 64.4558, 86.0640,  
24.5246

■ 61.4259, 84.6180,  
19.1415

■ 58.8331, 83.3576,  
15.5738

■ 56.6302, 82.2639,  
13.5793

■ 55.0853, 81.4826,  
12.8244

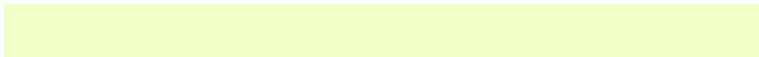
# Harmonies

## Analogous

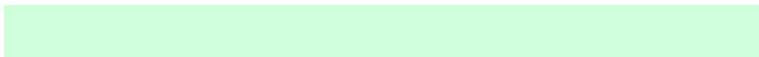
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.3520, 93.9942, 63.3698



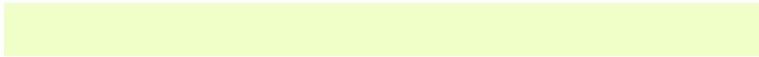
81.6654, 93.9942, 67.8713



76.3238, 93.9942, 81.2781

# Triad

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



81.6654, 93.9942, 67.8713



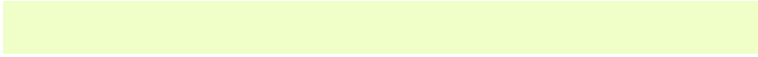
81.6436, 93.9942, 146.8203



106.1235, 93.9942, 102.3820

# Complementary

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



81.6654, 93.9942, 67.8713



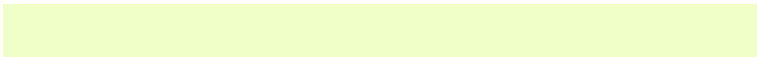
66.4987, 62.5152, 103.1695

# Split Complementary

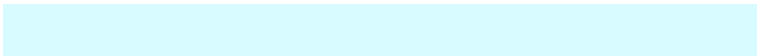
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



103.7549, 93.9942, 126.7668



81.6654, 93.9942, 67.8713



89.3253, 93.9942, 154.7083

# Square

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



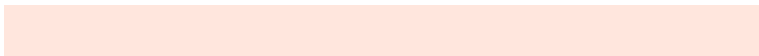
81.6654, 93.9942, 67.8713



76.3117, 93.9942, 126.6904



97.4781, 93.9942, 146.8690

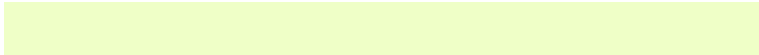


103.7697, 93.9942, 81.3350

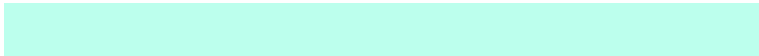


# Rectangle

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



81.6654, 93.9942, 67.8713



74.6393, 93.9942, 94.6349



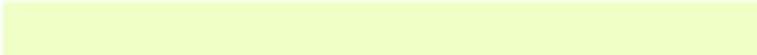
97.4781, 93.9942, 146.8690



105.8514, 93.9942, 110.4601

# Sweetspot

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



81.6659, 93.9945, 67.8727



90.4565, 97.9487, 94.3741



75.8160, 73.9174, 64.3057



19.2798, 20.9285, 19.9457



0.0000, 0.0000, 0.0000

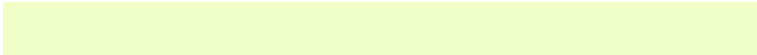


20.3446, 21.4041, 23.3091

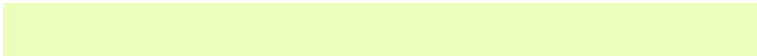


# Same Dimension

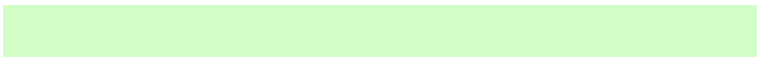
The Same Dimension uses a secret algorithm to generate beautiful new colors.



81.6659, 93.9945, 67.8727



79.5239, 93.0238, 61.7376



72.9717, 89.5125, 67.4658



19.0258, 20.8147, 19.1592



28.9377, 42.6560, 6.7083



2.9252, 4.2088, 0.6582



# Inverse Universe

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



66.4987, 62.5152, 103.1695



62.0952, 56.8444, 102.3070



75.3902, 67.0989, 103.5856



17.4904, 17.6290, 22.7308



10.9875, 4.5748, 49.7385

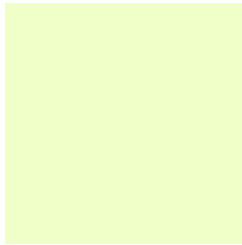


1.1718, 0.4980, 4.8476



# Previews

## White Background



This preview shows how the XYZ color 81.6654, 93.9942, 67.8713 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

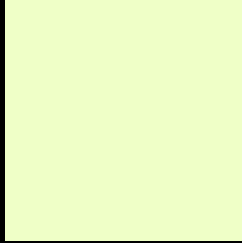
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 81.6654, 93.9942, 67.8713 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

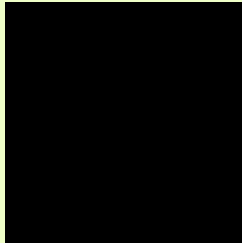
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

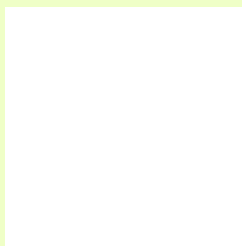
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 81.6654, 93.9942, 67.8713**

## **Background**



This preview shows how black text looks on a background with the XYZ color 81.6654, 93.9942, 67.8713.



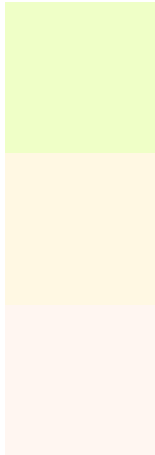
This preview shows how white text looks on a background with the XYZ color 81.6654, 93.9942, 67.8713.

67.8713.

# 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

81.6654, 93.9942, 67.8713

### Protanopia

88.6725, 93.9409, 86.1319

### Deuteranopia

90.0730, 93.5224, 96.5234

## **Tritanopia**

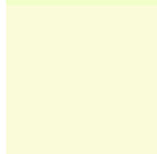
90.0222, 93.6980, 107.9486

# Trichromacy



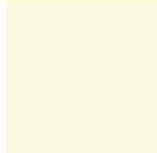
## Original Color

81.6654, 93.9942, 67.8713



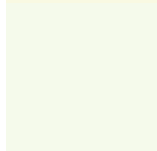
## Protanomaly

86.0885, 94.1439, 79.2799



## Deuteranomaly

86.6701, 93.3821, 85.4080



## Tritanomaly

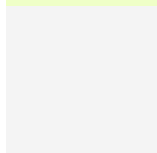
86.8372, 93.7819, 92.1222

# Monochromacy



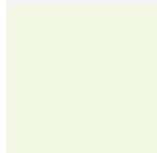
## Original Color

81.6654, 93.9942, 67.8713



## Achromatopsia

85.9880, 90.4661, 98.5176



## Achromatomaly

84.1889, 91.6135, 86.6447

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 81.6654, 93.9942, 67.8713 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(239, 255, 199)` looks like.

```
.text, #text, p{  
    color:rgb(239, 255, 199)  
}
```

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(239, 255, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 255, 199) }
```

## Border

The CSS property to change the border of an element to XYZ 81.6654, 93.9942, 67.8713 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(239, 255, 199) }
```



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

```
.border{ border-color:rgb(239, 255, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 255, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 255, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 255, 199);  
box-shadow:4px 4px 4px 4px rgb(239, 255,  
199) }
```

# Background

The CSS property to change the background color of an element to XYZ 81.6654, 93.9942, 67.8713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 255, 199) }
```

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

```
.background{ background-color: rgb(239,  
255, 199) }
```

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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