

# Converting Colors

XYZ(83.4020, 89.3410, 88.7653)

Have a look what the booklet for  
XYZ(83.4020, 89.3410, 88.7653)  
contains.

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# Color

**XYZ(83.3924, 89.3481,  
88.4520)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F2F4E7
RGB	242, 244, 231
RGB Percent	95%, 96%, 91%
CMY	0.0510, 0.0431, 0.0941
CMYK	0.01, 0.00, 0.05, 0.04
HSL	69°, 37%, 93%
HSV	69°, 5%, 96%
XYZ	83.3924, 89.3481, 88.4520
YIQ	241.9200, 2.9810, -4.4670

# Conversions

## Conversions Part 2

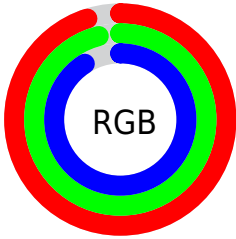
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 244, 233
Decimal	15922407
CIE Lab	95.73, -2.91, 6.02
CIE LCh	96, 6.683, 115.816
Yxy	89.3481, 0.3193, 0.3421
Android (android.graphics.Color)	4294112487 (0xFFFF2F4E7)
YUV	241.9200, -5.3836, 0.0702
Hunter-Lab	94.5241, -7.9384, 10.6856

# Details

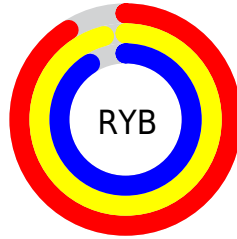
The XYZ color **83.3924, 89.3481, 88.4520** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **78.5128, 81.0096, 97.0909**, and the grayscale version is **84.3765, 88.7707, 96.6713**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **45.9708, 49.5007, 47.6891** is the 20% darker color. If you saturate the color by 10%, you get **78.9067, 87.4091, 71.4890**, and if you desaturate by 10%, it is **88.3253, 91.4748, 107.6089**.

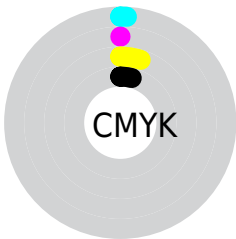
# Distribution



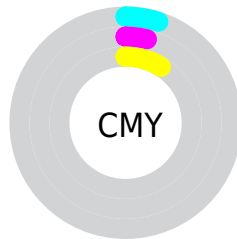
- Red (95%)
- Green (96%)
- Blue (91%)



- Red (91%)
- Yellow (96%)
- Blue (91%)



- Cyan (1%)
- Magenta (0%)
- Yellow (5%)
- Black (4%)




- Cyan (5%)
- Magenta (4%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 83.3924, 89.3481, 88.4520 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 83.3924, 89.3481, 88.4520 by changing the saturation by 10% instead.



 83.3924, 89.3481,  
88.4520

 83.3924, 89.3481,  
88.4520

494.8575,  
525.9080, 543.4219

 62.8319, 67.4401,  
66.1310


137.0506,  
146.4325, 147.1029

 45.9634, 49.4424,  
47.9216

170.8790,  
182.3778, 184.2700

 32.4214, 34.9705,  
33.4053


209.8608,  
223.7708, 227.2227

 21.8407, 23.6402,  
22.1634

254.3613,  
270.9962, 276.3798

 13.8558, 15.0669,  
13.7776

304.7458,  
324.4382, 332.1597

 8.1015, 8.8664,  
7.8291

361.3798,

 4.2123, 4.6541,

384.4812, 394.9810

3.8996

424.6286,  
451.5097, 465.2622

■ 1.8229, 2.0458,  
1.5704

■ 0.5314, 0.6339,  
0.2696

■ 83.3924, 89.3481,  
88.4520

■ 83.3924, 89.3481,  
88.4520

■ 78.9067, 87.4091,  
71.4890

■ 88.3253, 91.4748,  
107.6089

■ 74.9057, 85.6641,  
56.9516

■ 89.6564, 92.1611,  
107.6712

■ 71.3705, 84.1085,  
44.7305

■ 91.0145, 92.8611,  
107.7348

■ 68.2783, 82.7331,  
34.7057

■ 91.6424, 93.1849,  
107.7641

■ 65.6040, 81.5278,  
26.7464

■ 63.3200, 80.4817,  
20.7081

■ 61.3952, 79.5822,  
16.4274

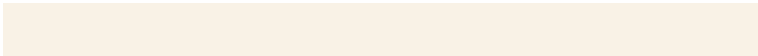
■ 59.7932, 78.8147,  
13.7142

■ 58.4694, 78.1614,  
12.3338

# Harmonies

## Analogous

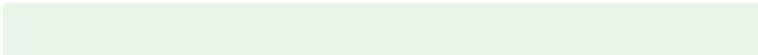
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.1809, 89.3481, 87.5322



83.3924, 89.3481, 88.4520



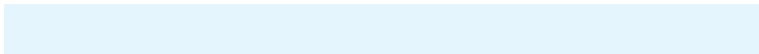
82.0315, 89.3481, 91.7062

# Triad

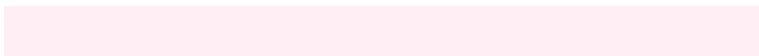
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.3924, 89.3481, 88.4520



82.9518, 89.3481, 105.9034



88.4977, 89.3481, 98.0256

# Complementary

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



83.3924, 89.3481, 88.4520



78.5128, 81.0096, 97.0909

# Split Complementary

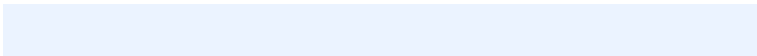
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.8810, 89.3481, 103.0853



83.3924, 89.3481, 88.4520



84.6650, 89.3481, 107.7364

# Square

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



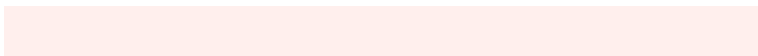
83.3924, 89.3481, 88.4520



81.7797, 89.3481, 101.7611



86.4716, 89.3481, 106.6871



88.1452, 89.3481, 92.9419

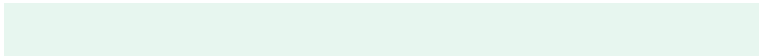


# Rectangle

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



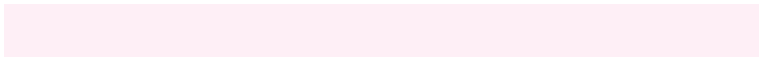
83.3924, 89.3481, 88.4520



81.5410, 89.3481, 94.8248



86.4716, 89.3481, 106.6871



88.3966, 89.3481, 99.7871

# Sweetspot

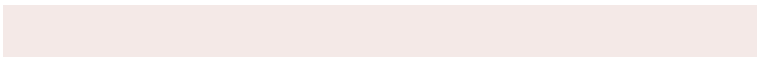
The Sweet Spot groups the original color and five complimentary colors.



83.3949, 89.3520, 88.4539



93.9510, 99.5271, 104.6192



80.8598, 83.2547, 87.4107



20.1209, 21.3079, 22.4376



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

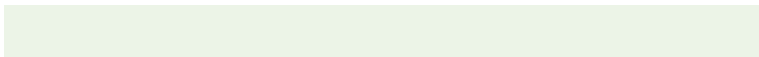
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.3949, 89.3520, 88.4539



91.8212, 98.6089, 96.3985



81.2204, 88.2310, 88.3522



17.9327, 19.2993, 18.6495



31.5840, 42.3950, 6.5184



2.8422, 3.7603, 0.5760



# Inverse Universe

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



78.5128, 81.0096, 97.0909



85.7599, 88.2513, 107.1219



80.6567, 82.1148, 97.1913



16.6264, 17.0670, 20.9605



9.3770, 3.8083, 46.7789

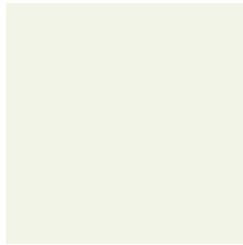


0.8935, 0.3705, 4.1147



# Previews

## White Background



This preview shows how the XYZ color 83.3924, 89.3481, 88.4520 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

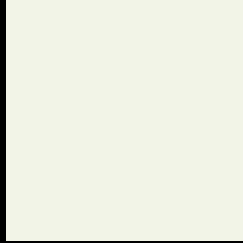
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 83.3924, 89.3481, 88.4520 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

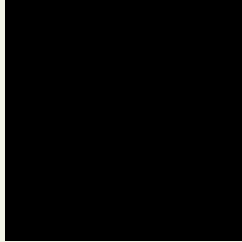
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

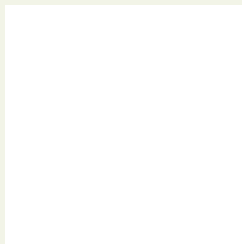
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 83.3924, 89.3481, 88.4520

## Background



This preview shows how black text looks on a background with the XYZ color 83.3924, 89.3481, 88.4520.



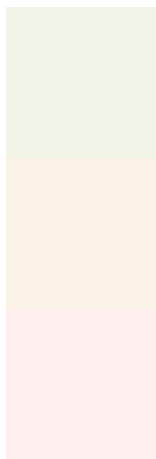
This preview shows how white text looks on a background with the XYZ color 83.3924, 89.3481,

88.4520.

# 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

83.3924, 89.3481, 88.4520

### Protanopia

85.4594, 89.5414, 87.6419

### Deuteranopia

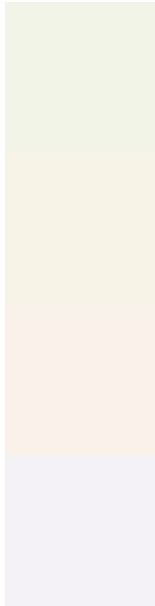
87.5391, 89.1661, 93.4859



## Tritanopia

87.1615, 89.5431, 107.2974

# Trichromacy



## Original Color

83.3924, 89.3481, 88.4520

## Protanomaly

84.6913, 89.5885, 87.6915

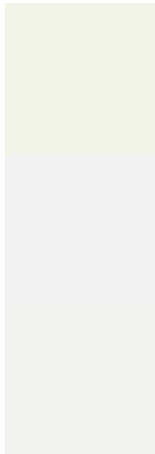
## Deuteranomaly

85.8750, 89.2327, 91.2948

## Tritanomaly

85.6949, 89.3912, 99.9264

# Monochromacy



## Original Color

83.3924, 89.3481, 88.4520

## Achromatopsia

84.3971, 88.7923, 96.6948

## Achromatomaly

84.1012, 89.1515, 93.6643

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 83.3924, 89.3481, 88.4520 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(242, 244, 231) looks like.

```
.text, #text, p{  
    color:rgb(242, 244, 231)  
}
```

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(242, 244, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 244, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 83.3924, 89.3481, 88.4520 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(242, 244, 231) }
```



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

```
.border{ border-color:rgb(242, 244, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 244, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 244, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 244, 231);  
box-shadow:4px 4px 4px 4px rgb(242, 244,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 83.3924, 89.3481, 88.4520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 244, 231) }
```

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

```
.background{ background-color: rgb(242,  
244, 231) }
```

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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