

# Converting Colors

XYZ(83.1391, 89.7447, 80.8731)

Have a look what the booklet for  
XYZ(83.1391, 89.7447, 80.8731)  
contains.

<b>XYZ(83.2269, 89.8846, 80.6731)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(83.2269, 89.8846,  
80.6731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5F5DC
RGB	245, 245, 220
RGB Percent	96%, 96%, 86%
CMY	0.0392, 0.0392, 0.1372
CMYK	0.00, 0.00, 0.10, 0.04
HSL	60°, 56%, 91%
HSV	60°, 10%, 96%
XYZ	83.2269, 89.8846, 80.6731
YIQ	242.1500, 8.0250, -7.7750

# Conversions

## Conversions Part 2

Format	Color
R <sub>YB</sub>	220, 245, 220
Decimal	16119260
CIE Lab	95.95, -4.19, 12.04
CIE LCh	96, 12.748, 109.184
Yxy	89.8846, 0.3279, 0.3542
Android (android.graphics.Color)	4294309340 (0xFFF5F5DC)
YUV	242.1500, -10.9200, 2.4994
Hunter-Lab	94.8075, -9.2166, 15.9145

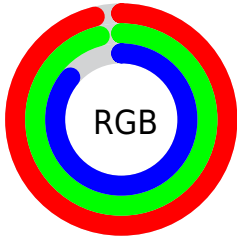
# Details

The XYZ color **83.2269, 89.8846, 80.6731** is a light color, and the websafe version is hex **FFFCC**, and the color name is **beige**. A complement of this color would be **71.5933, 72.9970, 96.7075**, and the grayscale version is **84.5983, 89.0040, 96.9253**.

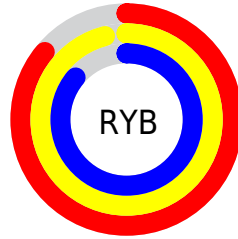
A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **45.9754, 49.9306, 42.8117** is the 20% darker color. If you saturate the color by 10%, you get **80.2163, 88.6831, 64.8171**, and if you desaturate by 10%, it is **86.7180, 91.2842, 99.0376**.

Beige is a yellowish-gray color, and it is the color of natural wool.

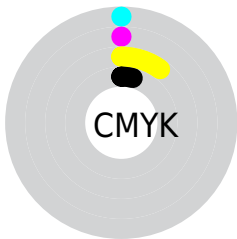
# Distribution



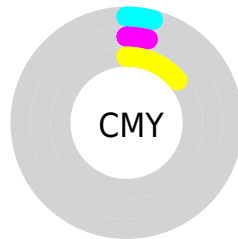
- Red (96%)
- Green (96%)
- Blue (86%)



- Red (86%)
- Yellow (96%)
- Blue (86%)



- Cyan (0%)
- Magenta (0%)
- Yellow (10%)
- Black (4%)




- Cyan (4%)
- Magenta (4%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 83.2269, 89.8846, 80.6731 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 83.2269, 89.8846, 80.6731 by changing the saturation by 10% instead.




 83.2269, 89.8846,  
80.6731

 83.2269, 89.8846,  
80.6731


494.3149,  
527.6554, 516.9648

 62.6949, 67.8849,  
59.7430


136.8201,  
147.1781, 136.1316

 45.8521, 49.8041,  
42.7876


170.6120,  
183.2407, 171.4971

 32.3333, 35.2578,  
29.3883


209.5545,  
224.7598, 212.5114

 21.7730, 23.8615,  
19.1267

254.0131,  
272.1196, 259.5931

 13.8059, 15.2309,  
11.5841

304.3531,  
325.7047, 313.1608

 8.0666, 8.9816,  
6.3421

360.9398,

 4.1897, 4.7292,

385.8995, 373.6329

2.9820

424.1386,  
453.0882, 441.4281

■ 1.8100, 2.0893,  
1.0855

■ 0.5237, 0.6586,  
0.0000

■ 83.2269, 89.8846,  
80.6731

■ 83.2269, 89.8846,  
80.6731

■ 80.2163, 88.6831,  
64.8171

■ 86.7180, 91.2842,  
99.0376

■ 77.6583, 87.6597,  
51.3554


■ 88.3641, 91.9428,  
107.6972


■ 75.5332, 86.8095,  
40.1734


■ 88.3657, 91.9437,  
107.6973


■ 73.8171, 86.1229,  
31.1450


■ 88.3674, 91.9445,  
107.6973


 72.4837, 85.5893,  
24.1317


 88.3690, 91.9453,  
107.6974


 71.5036, 85.1971,  
18.9791


 88.3706, 91.9462,  
107.6975


 70.8432, 84.9328,  
15.5103

 88.3723, 91.9470,  
107.6976

 70.4626, 84.7803,  
13.5145

 88.3739, 91.9479,  
107.6977

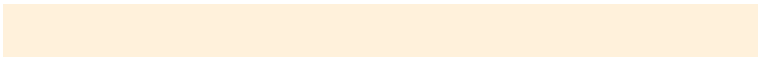
 70.2961, 84.7136,  
12.6464

 88.3755, 91.9487,  
107.6977

# Harmonies

## Analogous

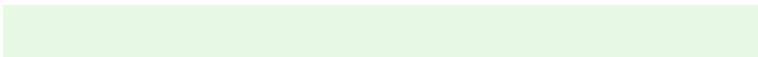
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



86.7095, 89.8846, 80.0309



83.2269, 89.8846, 80.6731



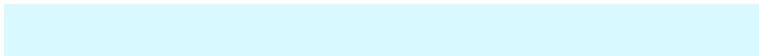
80.4100, 89.8846, 85.7335

# Triad

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



83.2269, 89.8846, 80.6731



81.0829, 89.8846, 113.2906



92.2574, 89.8846, 101.5532

# Complementary

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



83.2269, 89.8846, 80.6731



71.5933, 72.9970, 96.7075

# Split Complementary

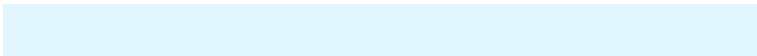
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.6601, 89.8846, 111.0989



83.2269, 89.8846, 80.6731



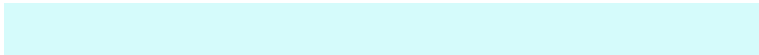
84.1683, 89.8846, 118.1784

# Square

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



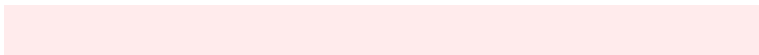
83.2269, 89.8846, 80.6731



79.1959, 89.8846, 104.3805



87.6770, 89.8846, 117.3499



91.9884, 89.8846, 91.6342

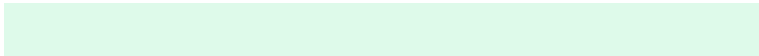


# Rectangle

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



83.2269, 89.8846, 80.6731



79.2586, 89.8846, 91.1385



87.6770, 89.8846, 117.3499



91.9192, 89.8846, 104.9231

# Sweetspot

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



83.2293, 89.8885, 80.6750



93.8420, 99.5168, 102.5418



76.1705, 75.7684, 78.3216



20.0187, 21.2737, 21.5937



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

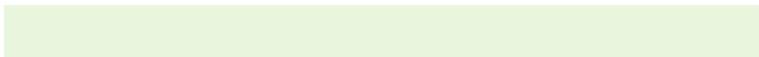
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.2293, 89.8885, 80.6750



90.5067, 98.1824, 84.9867



79.0153, 87.7161, 80.4778



17.9144, 19.3134, 17.5812



37.8680, 45.6345, 6.8125



3.3283, 4.0109, 0.5988



# Inverse Universe

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



71.5933, 72.9970, 96.7075



75.6797, 76.6588, 105.4156



75.5186, 75.0206, 96.8912



15.5815, 15.9269, 20.7955



8.8793, 3.5518, 46.7556

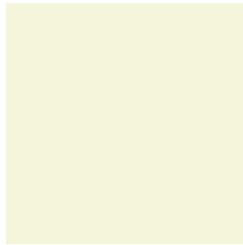


0.7805, 0.3122, 4.1094



# Previews

## White Background



This preview shows how the XYZ color 83.2269, 89.8846, 80.6731 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

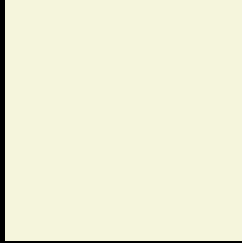
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 83.2269, 89.8846, 80.6731 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

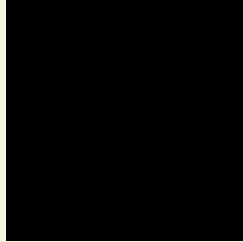
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

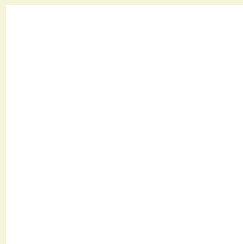
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 83.2269, 89.8846, 80.6731**

## **Background**



This preview shows how black text looks on a background with the XYZ color 83.2269, 89.8846, 80.6731.



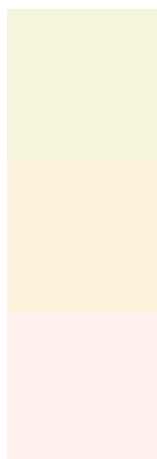
This preview shows how white text looks on a background with the XYZ color 83.2269, 89.8846,

80.6731.

# 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

83.2269, 89.8846, 80.6731

### Protanopia

85.0463, 89.5014, 79.8109

### Deuteranopia

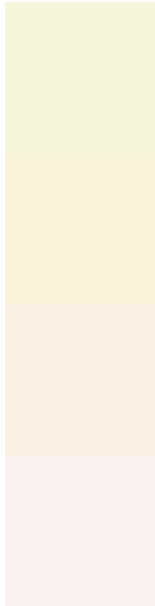
87.5404, 89.6363, 92.0445



## Tritanopia

88.2770, 89.6799, 107.2650

# Trichromacy



## Original Color

83.2269, 89.8846, 80.6731

## Protanomaly

84.2611, 89.5397, 79.8597

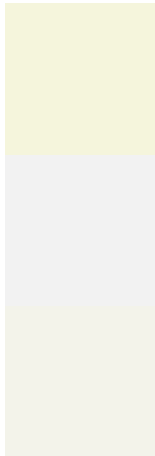
## Deuteranomaly

85.8187, 89.7267, 87.6588

## Tritanomaly

86.4905, 89.8715, 96.7928

# Monochromacy



## Original Color

83.2269, 89.8846, 80.6731

## Achromatopsia

84.3971, 88.7923, 96.6948

## Achromatomaly

83.8640, 89.0964, 90.6191

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 83.2269, 89.8846, 80.6731 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(245, 245, 220)` looks like.

```
.text, #text, p{  
    color:rgb(245, 245, 220)  
}
```

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(245, 245, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 245, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 83.2269, 89.8846, 80.6731 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(245, 245, 220) }
```



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

```
.border{ border-color:rgb(245, 245, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 245, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 245, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 245, 220);  
box-shadow:4px 4px 4px 4px rgb(245, 245,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 83.2269, 89.8846, 80.6731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 245, 220) }
```

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

```
.background{ background-color: rgb(245,  
245, 220) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor