

# Converting Colors

XYZ(87.8446, 96.7561, 87.3024)

Have a look what the booklet for  
XYZ(87.8446, 96.7561, 87.3024)  
contains.

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# Color

**XYZ(87.7696, 96.7143,  
87.4406)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F6FFE4
RGB	246, 255, 228
RGB Percent	96%, 100%, 89%
CMY	0.0353, 0.0000, 0.1059
CMYK	0.04, 0.00, 0.11, 0.00
HSL	80°, 100%, 95%
HSV	80°, 11%, 100%
XYZ	87.7696, 96.7143, 87.4406
YIQ	249.2310, 3.3030, -10.3050

# Conversions

## Conversions Part 2

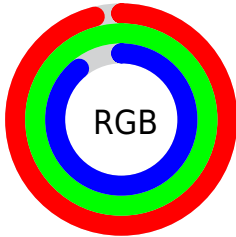
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 255, 237
Decimal	16187364
CIE <sub>Lab</sub>	98.72, -7.56, 11.88
CIE <sub>LCh</sub>	99, 14.087, 122.476
Yxy	96.7143, 0.3228, 0.3557
Android (android.graphics.Color)	4294377444 (0xFFFF6FFE4)
<b>YUV</b>	249.2310, -10.4669, -2.8336
Hunter-Lab	98.3434, -12.7932, 16.1236

# Details

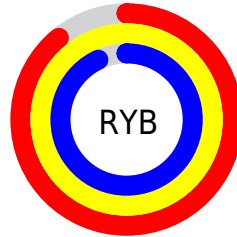
The XYZ color **87.7696, 96.7143, 87.4406** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **80.7193, 80.7126, 105.9325**, and the grayscale version is **90.3133, 95.0166, 103.4731**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **48.9721, 54.3524, 47.4451** is the 20% darker color. If you saturate the color by 10%, you get **81.5729, 93.8990, 70.0142**, and if you desaturate by 10%, it is **94.6263, 99.8093, 107.6261**.

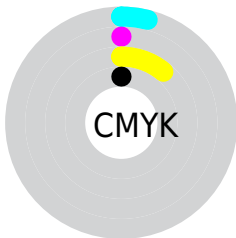
# Distribution



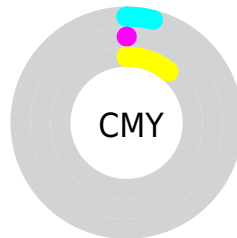
- Red (96%)
- Green (100%)
- Blue (89%)



- Red (89%)
- Yellow (100%)
- Blue (93%)



- Cyan (4%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)



- Cyan (4%)
- Magenta (0%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 87.7696, 96.7143, 87.4406 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 87.7696, 96.7143, 87.4406 by changing the saturation by 10% instead.



87.7696, 96.7143,  
87.4406

87.7696, 96.7143,  
87.4406

509.0951,  
549.6387, 540.0233

66.4624, 73.5626,  
65.2982

143.1305,  
156.6309, 145.6824

48.9170, 54.4361,  
47.2500

177.9150,  
194.1645, 182.6188

34.7679, 38.9504,  
32.8776

217.9226,  
237.2610, 225.3237

23.6498, 26.7212,  
21.7623

263.5187,  
286.3046, 274.2155

15.1974, 17.3639,  
13.4857

315.0686,  
341.6798, 329.7129

9.0452, 10.4943,  
7.6292

372.9378,

4.8281, 5.7279,

403.7709, 392.2343

3.7743

437.4915,  
472.9624, 462.1982

■ 2.1804, 2.6803,  
1.5023

■ 0.7324, 0.9672,  
0.2197

■ 87.7696, 96.7143,  
87.4406

■ 87.7696, 96.7143,  
87.4406

■ 81.5729, 93.8990,  
70.0142

94.6263, 99.8093,  
107.6261

■ 76.0097, 91.3527,  
55.2227

95.0500, 100.0000,  
108.9000

■ 71.0542, 89.0648,  
42.9386

■ 66.6781, 87.0238,  
33.0223

■ 62.8504, 85.2171,  
25.3204

■ 59.5365, 83.6305,  
19.6614

■ 56.6973, 82.2483,  
15.8488

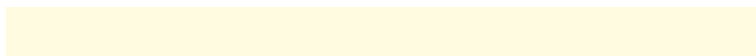
■ 54.2858, 81.0514,  
13.6476

■ 52.3383, 80.0664,  
12.6959

# Harmonies

## Analogous

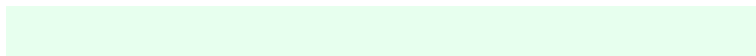
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91.5851, 96.7143, 84.3868



87.7696, 96.7143, 87.4406



85.1311, 96.7143, 95.2455

# Triad

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



87.7696, 96.7143, 87.4406



88.3408, 96.7143, 126.5469



99.9991, 96.7143, 104.3365

# Complementary

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



87.7696, 96.7143, 87.4406



80.7193, 80.7126, 105.9325

# Split Complementary

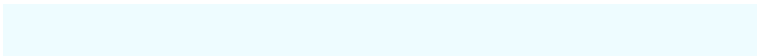
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



99.0691, 96.7143, 116.0499



87.7696, 96.7143, 87.4406



92.2638, 96.7143, 129.4234

# Square

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



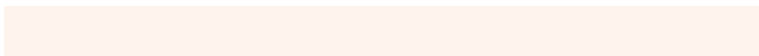
87.7696, 96.7143, 87.4406



85.4539, 96.7143, 117.8553



96.2076, 96.7143, 125.4515



98.7128, 96.7143, 93.6797

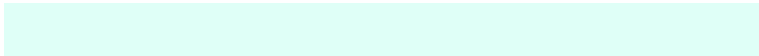


# Rectangle

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



87.7696, 96.7143, 87.4406



84.3528, 96.7143, 102.3863



96.2076, 96.7143, 125.4515



99.9353, 96.7143, 108.2795

# Sweetspot

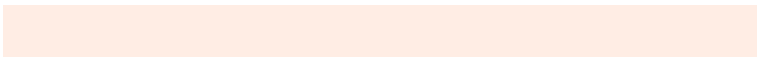
The Sweet Spot groups the original color and five complimentary colors.



87.7703, 96.7146, 87.4420



92.9107, 99.0366, 102.4982



85.3983, 87.1705, 85.7249



19.7665, 21.1437, 21.5819



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

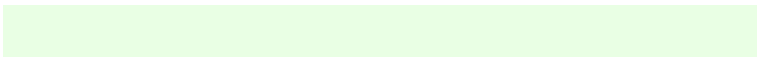
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.7703, 96.7146, 87.4420



86.2157, 96.0101, 82.9896



83.3524, 94.4370, 87.2353



18.9385, 20.7697, 19.1551



27.5128, 41.9215, 6.6416



2.7948, 4.1415, 0.6521



# Inverse Universe

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



80.7193, 80.7126, 105.9325



77.7029, 76.6896, 105.3149



85.2363, 83.0412, 106.1439



17.5734, 17.6718, 22.7347



11.5295, 4.8541, 49.7639

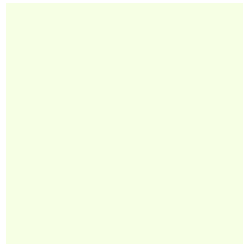


1.2329, 0.5295, 4.8505



# Previews

## White Background



This preview shows how the XYZ color 87.7696, 96.7143, 87.4406 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

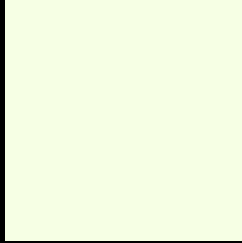
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 87.7696, 96.7143, 87.4406 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

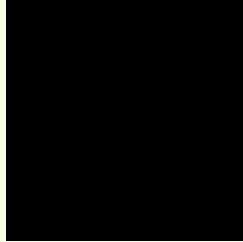
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

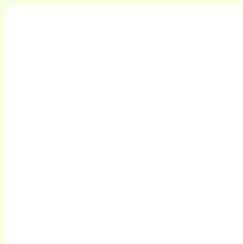
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 87.7696, 96.7143, 87.4406**

## **Background**



This preview shows how black text looks on a background with the XYZ color 87.7696, 96.7143, 87.4406.



This preview shows how white text looks on a background with the XYZ color 87.7696, 96.7143,

87.4406.

# 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

87.7696, 96.7143, 87.4406

### Protanopia

91.7642, 96.6652, 97.8262

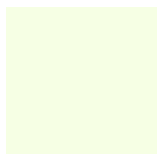
### Deuteranopia

92.5245, 96.4708, 103.3667

## **Tritanopia**

92.3308, 96.7236, 108.4109

# Trichromacy



## Original Color

87.7696, 96.7143, 87.4406

## Protanomaly

90.2413, 96.4307, 93.9775

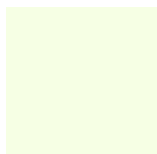
## Deuteranomaly

90.8325, 96.6671, 97.0903

## Tritanomaly

90.3588, 96.3531, 100.2218

# Monochromacy



## Original Color

87.7696, 96.7143, 87.4406

## Achromatopsia

90.0415, 94.7307, 103.1617

## Achromatomaly

89.0858, 95.3017, 96.9188

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 87.7696, 96.7143, 87.4406 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(246, 255, 228)` looks like.

```
.text, #text, p{  
    color:rgb(246, 255, 228)  
}
```

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(246, 255, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 255, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 87.7696, 96.7143, 87.4406 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(246, 255, 228) }
```



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

```
.border{ border-color:rgb(246, 255, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 255, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 255, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 255, 228);  
box-shadow:4px 4px 4px 4px rgb(246, 255,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 87.7696, 96.7143, 87.4406 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 255, 228) }
```

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

```
.background{ background-color: rgb(246,  
255, 228) }
```

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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