

# Converting Colors

XYZ(80.5421, 93.8136, 49.8191)

Have a look what the booklet for  
XYZ(80.5421, 93.8136, 49.8191)  
contains.

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# Color

**XYZ(80.6490, 93.8660,  
49.9437)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | F6FFA6                      |
| RGB         | 246, 255, 166               |
| RGB Percent | 96%, 100%, 65%              |
| CMY         | 0.0353, 0.0000, 0.3490      |
| CMYK        | 0.04, 0.00, 0.35, 0.00      |
| HSL         | 66°, 100%, 83%              |
| HSV         | 66°, 35%, 100%              |
| XYZ         | 80.6490, 93.8660, 49.9437   |
| YIQ         | 242.1630, 23.2050, -29.5870 |

# Conversions

## Conversions Part 2

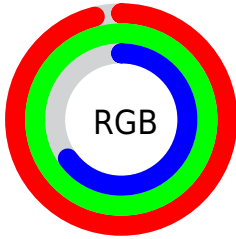
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| <b>R<sub>YB</sub></b>               | 166, 255, 175                 |
| Decimal                             | 16187302                      |
| CIE <sub>Lab</sub>                  | 97.58, -16.20, 41.58          |
| CIE <sub>LCh</sub>                  | 98, 44.627, 111.288           |
| Yxy                                 | 93.8660, 0.3593,<br>0.4182    |
| Android<br>(android.graphics.Color) | 4294377382<br>(0xFFFF6FFA6)   |
| YUV                                 | 242.1630, -37.5484,<br>3.3650 |
| Hunter-Lab                          | 96.8845, -20.9601,<br>37.2553 |

# Details

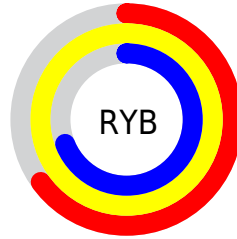
The XYZ color **80.6490, 93.8660, 49.9437** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **49.3665, 43.6077, 100.4230**, and the grayscale version is **84.8014, 89.2177, 97.1581**.

A 20% lighter version of the original color is **90.1848, 98.0539, 83.2803**, and **44.1610, 52.3992, 23.4093** is the 20% darker color. If you saturate the color by 10%, you get **77.6386, 92.5581, 38.7792**, and if you desaturate by 10%, it is **84.1364, 95.3662, 63.5538**.

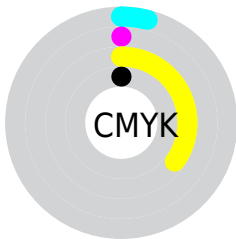
# Distribution



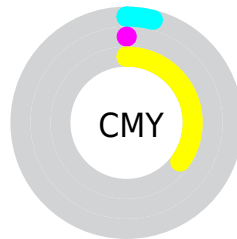
- Red (96%)
- Green (100%)
- Blue (65%)



- Red (65%)
- Yellow (100%)
- Blue (69%)



- Cyan (4%)
- Magenta (0%)
- Yellow (35%)
- Black (0%)




- Cyan (4%)
- Magenta (0%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.6490, 93.8660, 49.9437 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 80.6490, 93.8660, 49.9437 by changing the saturation by 10% instead.





 80.6490, 93.8660,  
49.9437


 80.6490, 93.8660,  
49.9437


485.8206,  
540.5282, 403.1745

 60.5629, 71.1915,  
34.9978

 133.2235,  
152.6970, 91.4869

 44.1237, 52.4985,  
23.3776


 166.4427,  
189.6223, 118.9213

 30.9661, 37.4026,  
14.6647


204.7702,  
232.0667, 151.3556

 20.7247, 25.5193,  
8.4404

248.5714,  
280.4145, 189.2083

 13.0342, 16.4644,  
4.2862

298.2117,  
335.0502, 232.8980

 7.5293, 9.8534,  
1.7836

354.0564,

 3.8445, 5.3018,

396.3581, 282.8433

0.4171

416.4709,  
464.7226, 339.4626

■ 1.6145, 2.4254,  
0.0000

■ 0.4019, 0.8389,  
0.0000

■ 80.6490, 93.8660,  
49.9437

■ 80.6490, 93.8660,  
49.9437

■ 77.6386, 92.5581,  
38.7792

■ 84.1364, 95.3662,  
63.5538

■ 75.0767, 91.4310,  
29.9115

■ 88.1252, 97.0684,  
79.7389

■ 72.9331, 90.4727,  
23.1812

■ 92.6392, 98.9822,  
98.6237

■ 71.1733, 89.6693,  
18.4076

95.0500, 100.0000,  
108.9000

■ 69.7572, 89.0049,  
15.3796

■ 68.6356, 88.4596,  
13.8378

■ 68.1413, 88.2131,  
13.4354

# Harmonies

## Analogous

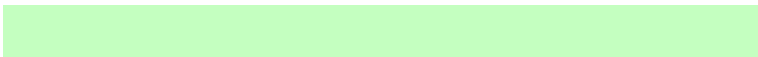
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



92.9638, 93.8660, 47.5262



80.6490, 93.8660, 49.9437



71.5011, 93.8660, 64.4364

# Triad

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



80.6490, 93.8660, 49.9437



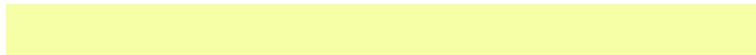
74.8113, 93.8660, 166.9968



115.5717, 93.8660, 113.1579

# Complementary

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



80.6490, 93.8660, 49.9437



49.3665, 43.6077, 100.4230

# 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.



109.6408, 93.8660, 152.4287



80.6490, 93.8660, 49.9437



85.5719, 93.8660, 187.9989

# Square

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



80.6490, 93.8660, 49.9437



68.3596, 93.8660, 129.7287



98.3709, 93.8660, 182.1144



113.9358, 93.8660, 78.8772

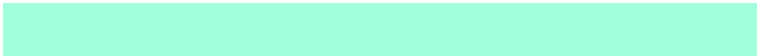


# Rectangle

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



80.6490, 93.8660, 49.9437



68.0461, 93.8660, 81.3862



98.3709, 93.8660, 182.1144



114.3778, 93.8660, 126.2999

# Sweetspot

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



80.6493, 93.8662, 49.9450



90.2704, 97.9793, 88.6494



63.4342, 54.6353, 43.2800



19.1871, 20.9146, 18.4133



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

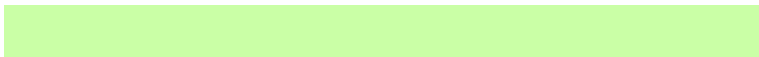
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.6493, 93.8662, 49.9450



78.4645, 92.9184, 41.7750



66.8926, 86.7743, 49.3012



19.3695, 20.9919, 19.1753



35.6789, 46.1312, 7.0237



3.5240, 4.5175, 0.6862



# Inverse Universe

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



49.3665, 43.6077, 100.4230



42.8689, 35.7118, 99.2414



61.0209, 49.6158, 100.9684



17.1734, 17.4656, 22.7160



9.7068, 3.9145, 49.6786

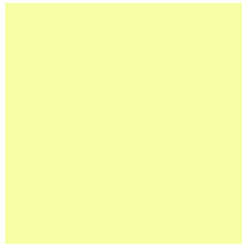


0.9990, 0.4089, 4.8395



# Previews

## White Background



This preview shows how the XYZ color 80.6490, 93.8660, 49.9437 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

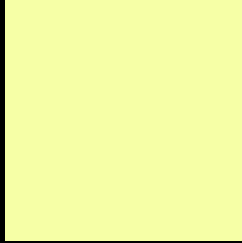
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 80.6490, 93.8660, 49.9437 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

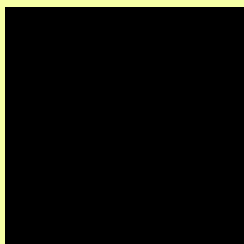
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

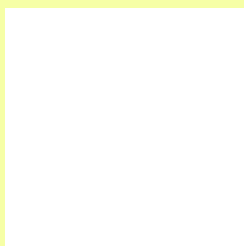
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 80.6490, 93.8660, 49.9437**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.6490, 93.8660, 49.9437.



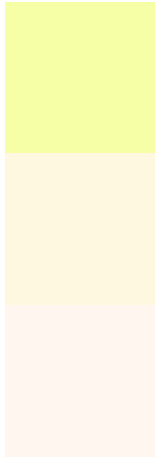
This preview shows how white text looks on a background with the XYZ color 80.6490, 93.8660,



# 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

80.6490, 93.8660, 49.9437

### Protanopia

88.2619, 93.7766, 83.9698

### Deuteranopia

89.7758, 93.4035, 94.9583

## **Tritanopia**

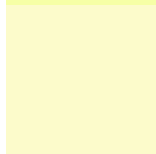
91.5138, 94.0142, 107.9310

# Trichromacy



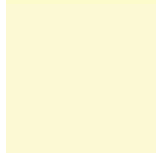
## Original Color

80.6490, 93.8660, 49.9437



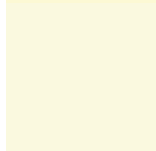
## Protanomaly

85.4216, 94.0016, 70.1418



## Deuteranomaly

85.9042, 93.2003, 75.7492



## Tritanomaly

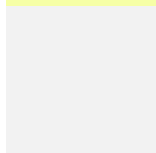
86.6193, 93.4031, 83.2753

# Monochromacy



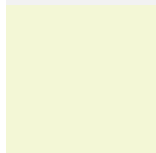
## Original Color

80.6490, 93.8660, 49.9437



## Achromatopsia

84.3971, 88.7923, 96.6948



## Achromatomaly

82.3605, 90.4313, 76.7324

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.6490, 93.8660, 49.9437 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, 166)` looks like.

```
.text, #text, p{  
    color:rgb(246, 255, 166)  
}
```

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, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 255, 166) }
```

## Border

The CSS property to change the border of an element to XYZ 80.6490, 93.8660, 49.9437 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, 166) }
```



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

```
.border{ border-color:rgb(246, 255, 166) }
```

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, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 255, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 255, 166);  
box-shadow:4px 4px 4px 4px rgb(246, 255,  
166) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.6490, 93.8660, 49.9437 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, 166) }
```

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

```
.background{ background-color: rgb(246,  
255, 166) }
```

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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