

# Converting Colors

XYZ(102.1470, 100.0000,  
50.6403)

Have a look what the booklet for  
XYZ(102.1470, 100.0000, 50.6403)  
contains.

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# Color

**XYZ(80.5657, 88.7514,  
49.4437)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF4A7
RGB	255, 244, 167
RGB Percent	100%, 96%, 65%
CMY	0.0000, 0.0431, 0.3451
CMYK	0.00, 0.04, 0.35, 0.00
HSL	53°, 100%, 83%
HSV	53°, 35%, 100%
XYZ	80.5657, 88.7514, 49.4437
YIQ	238.5110, 31.2730, -21.6150

# Conversions

## Conversions Part 2

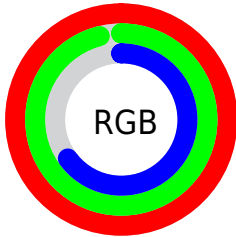
Format	Color
<a href="#">RYB</a>	<a href="#">180, 255, 167</a>
Decimal	<a href="#">16774311</a>
CIELab	<a href="#">95.48, -7.31, 38.47</a>
CIElCh	<a href="#">95, 39.162, 100.752</a>
Yxy	<a href="#">88.7514, 0.3683, 0.4057</a>
Android (android.graphics.Color)	<a href="#">4294964391 (0xFFFFF4A7)</a>
YUV	<a href="#">238.5110, -35.2549, 14.4609</a>
Hunter-Lab	<a href="#">94.2080, -12.2125, 34.8281</a>

# Details

The XYZ color **80.5657, 88.7514, 49.4437** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **49.9064, 47.2749, 101.1023**, and the grayscale version is **81.9141, 86.1800, 93.8500**.

A 20% lighter version of the original color is **90.3193, 98.1077, 83.9884**, and **44.0464, 49.0517, 23.0660** is the 20% darker color. If you saturate the color by 10%, you get **77.4875, 86.0027, 37.9119**, and if you desaturate by 10%, it is **84.1298, 91.7273, 63.4326**.

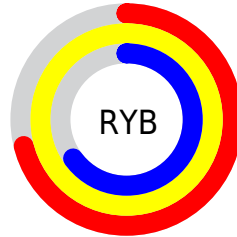
# Distribution



Red (100%)

Green (96%)

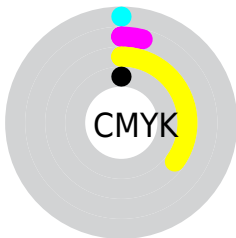
Blue (65%)



Red (71%)

Yellow (100%)

Blue (65%)

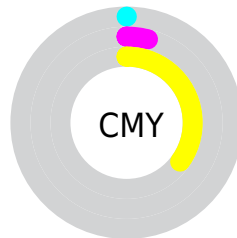


Cyan (0%)

Magenta (4%)

Yellow (35%)

Black (0%)



Cyan (0%)

Magenta (4%)

Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.5657, 88.7514, 49.4437 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 80.5657, 88.7514, 49.4437 by changing the saturation by 10% instead.





 80.5657, 88.7514,  
49.4437


 80.5657, 88.7514,  
49.4437


485.5448,  
523.9608, 401.1590

 60.4940, 66.9455,  
34.6035


 133.1071,  
145.6028, 90.7379

 44.0680, 49.0404,  
23.0765


 166.3076,  
181.4171, 118.0290

 30.9221, 34.6515,  
14.4442


204.6151,  
222.6698, 150.3074

 20.6911, 23.3945,  
8.2880

248.3949,  
269.7450, 187.9917

 13.0095, 14.8851,  
4.1894

298.0125,  
323.0274, 231.5005

 7.5122, 8.7388,  
1.7298

353.8330,

 3.8336, 4.5712,

382.9012, 281.2523

0.3810

416.2220,  
449.7509, 337.6656

■ 1.6084, 1.9979,  
0.0000

■ 0.3979, 0.6063,  
0.0000

■ 80.5657, 88.7514,  
49.4437

■ 80.5657, 88.7514,  
49.4437

■ 77.4875, 86.0027,  
37.9119

■ 84.1298, 91.7273,  
63.4326

■ 74.8610, 83.4579,  
28.6872

■ 88.1983, 94.9284,  
80.0058

■ 72.6579, 81.1088,  
21.6115

■ 92.7971, 98.3684,  
99.2885

■ 70.8440, 78.9414,  
16.5047

95.0500, 100.0000,  
108.9000

■ 69.3795, 76.9398,  
13.1576

■ 68.2155, 75.0841,  
11.3129

■ 67.6660, 74.1120,  
10.7387

# Harmonies

## Analogous

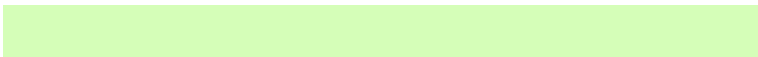
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91.3392, 88.7514, 50.9067



80.5657, 88.7514, 49.4437



71.5949, 88.7514, 58.4387

# Triad

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



80.5657, 88.7514, 49.4437



69.6756, 88.7514, 140.5525



105.3652, 88.7514, 117.4451

# Complementary

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



80.5657, 88.7514, 49.4437



49.9064, 47.2749, 101.1023

# 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.



98.5489, 88.7514, 148.6459



80.5657, 88.7514, 49.4437



77.7373, 88.7514, 163.8200

# Square

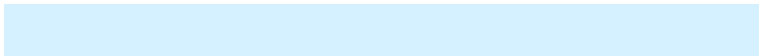
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.5657, 88.7514, 49.4437



65.6712, 88.7514, 108.0800



88.2624, 88.7514, 167.0610

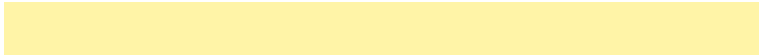


106.2850, 88.7514, 86.0283

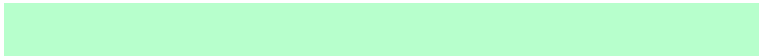


# Rectangle

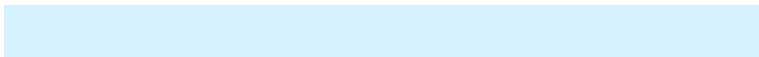
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.5657, 88.7514, 49.4437



67.6087, 88.7514, 70.5521



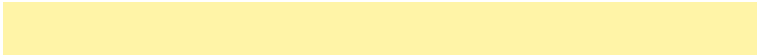
88.2624, 88.7514, 167.0610



103.6620, 88.7514, 128.4647

# Sweetspot

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



80.5679, 88.7554, 49.4455



90.2049, 96.4494, 88.3576



63.1691, 52.1423, 49.2428



19.1712, 20.5415, 18.3422



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

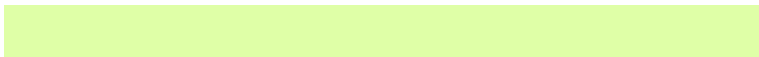
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.5679, 88.7554, 49.4455



78.5153, 86.9444, 41.6883



73.0848, 89.9558, 50.0717



19.3562, 20.6806, 19.1159



35.4331, 38.8775, 5.6366



3.5019, 3.8893, 0.5661



# Inverse Universe

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



49.9064, 47.2749, 101.1023



43.8988, 40.1231, 100.0386



55.4936, 47.0372, 100.7619



17.1858, 17.7433, 22.7689



9.7559, 4.4214, 49.7738

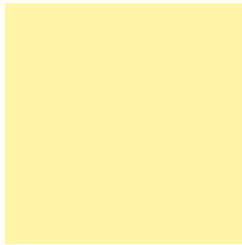


1.0048, 0.5402, 4.8646



# Previews

## White Background



This preview shows how the XYZ color 80.5657, 88.7514, 49.4437 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

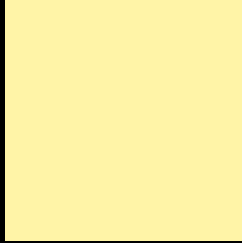
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 80.5657, 88.7514, 49.4437 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 80.5657, 88.7514, 49.4437**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.5657, 88.7514, 49.4437.



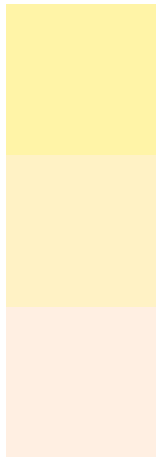
This preview shows how white text looks on a background with the XYZ color 80.5657, 88.7514,



# 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

80.5657, 88.7514, 49.4437

### Protanopia

83.0702, 88.7955, 65.5843

### Deuteranopia

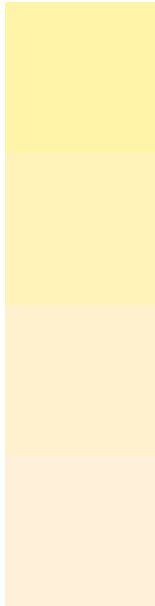
85.8340, 88.4840, 84.5067



## Tritanopia

88.3127, 88.5438, 100.4318

# Trichromacy



## Original Color

80.5657, 88.7514, 49.4437

## Protanomaly

82.1535, 88.9064, 59.2851

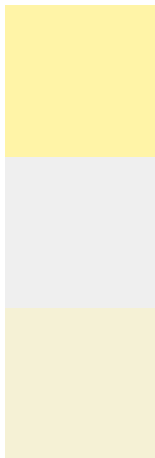
## Deuteranomaly

83.7147, 88.5784, 70.4427

## Tritanomaly

85.0550, 88.6421, 78.9564

# Monochromacy



## Original Color

80.5657, 88.7514, 49.4437

## Achromatopsia

82.0431, 86.3157, 93.9978

## Achromatomaly

81.1217, 87.1272, 75.4924

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.5657, 88.7514, 49.4437 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(255, 244, 167)` looks like.

```
.text, #text, p{  
    color:rgb(255, 244, 167)  
}
```

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(255, 244, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 244, 167) }
```

## Border

The CSS property to change the border of an element to XYZ 80.5657, 88.7514, 49.4437 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(255, 244, 167) }
```



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

```
.border{ border-color:rgb(255, 244, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 244, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 244, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 244, 167);  
box-shadow:4px 4px 4px 4px rgb(255, 244,  
167) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.5657, 88.7514, 49.4437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 244, 167) }
```

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

```
.background{ background-color: rgb(255,  
244, 167) }
```

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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