

# Converting Colors

XYZ(84.6125, 100.0000,  
51.4269)

Have a look what the booklet for  
XYZ(84.6125, 100.0000, 51.4269)  
contains.

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# Color

**XYZ(81.8020, 94.4498,  
50.4784)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F9FFA7
RGB	249, 255, 167
RGB Percent	98%, 100%, 65%
CMY	0.0235, 0.0000, 0.3451
CMYK	0.02, 0.00, 0.35, 0.00
HSL	64°, 100%, 83%
HSV	64°, 35%, 100%
XYZ	81.8020, 94.4498, 50.4784
YIQ	243.1740, 24.6720, -28.6400

# Conversions

## Conversions Part 2

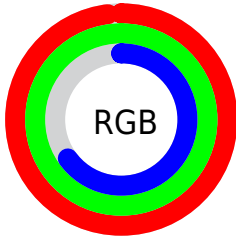
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">167, 255, 173</a>
Decimal	<a href="#">16383911</a>
CIELab	<a href="#">97.81, -14.97, 41.44</a>
CIElCh	<a href="#">98, 44.059, 109.862</a>
Yxy	<a href="#">94.4498, 0.3608, 0.4166</a>
Android (android.graphics.Color)	<a href="#">4294573991 (0xFFFF9FFA7)</a>
YUV	<a href="#">243.1740, -37.5538, 5.1094</a>
Hunter-Lab	<a href="#">97.1853, -19.8287, 37.2343</a>

# Details

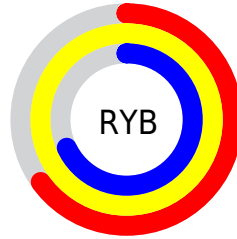
The XYZ color **81.8020, 94.4498, 50.4784** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **49.1033, 43.7429, 100.4629**, and the grayscale version is **85.6049, 90.0630, 98.0786**.

A 20% lighter version of the original color is **90.3193, 98.1077, 83.9884**, and **44.7172, 52.6794, 23.7309** is the 20% darker color. If you saturate the color by 10%, you get **79.0553, 93.2798, 39.2340**, and if you desaturate by 10%, it is **85.0199, 95.8088, 64.1736**.

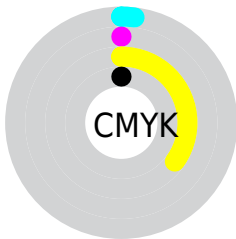
# Distribution



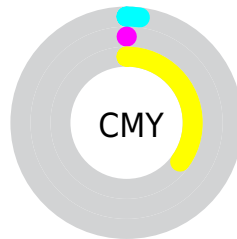
- Red (98%)
- Green (100%)
- Blue (65%)



- Red (65%)
- Yellow (100%)
- Blue (68%)



- Cyan (2%)
- Magenta (0%)
- Yellow (35%)
- Black (0%)




- Cyan (2%)
- Magenta (0%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 81.8020, 94.4498, 50.4784 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 81.8020, 94.4498, 50.4784 by changing the saturation by 10% instead.





 81.8020, 94.4498,  
50.4784


 81.8020, 94.4498,  
50.4784


489.6297,  
542.4021, 405.3224

 61.5159, 71.6771,  
35.4198


 134.8336,  
153.5043, 92.2869

 44.8958, 52.8950,  
23.7003

 168.3098,  
190.5548, 119.8739

 31.5763, 37.7189,  
14.9013


206.9133,  
233.1335, 152.4741

 21.1920, 25.7646,  
8.6043

251.0097,  
281.6247, 190.5061

 13.3777, 16.6476,  
4.3907

300.9641,  
336.4127, 234.3883

 7.7679, 9.9836,  
1.8421

357.1420,

 3.9974, 5.3881,

397.8820, 284.5395

0.4555

419.9088,  
466.4170, 341.3780

■ 1.7006, 2.4767,  
0.0000

■ 0.4567, 0.8649,  
0.0000

■ 81.8020, 94.4498,  
50.4784

■ 81.8020, 94.4498,  
50.4784

■ 79.0553, 93.2798,  
39.2340

■ 85.0199, 95.8088,  
64.1736

■ 76.7514, 92.2877,  
30.2919

■ 88.7333, 97.3668,  
80.4484

■ 74.8603, 91.4613,  
23.4936

■ 92.9659, 99.1331,  
99.4273

■ 73.3478, 90.7870,  
18.6592

95.0500, 100.0000,  
108.9000

■ 72.1741, 90.2489,  
15.5792

■ 71.2903, 89.8274,  
13.9966

■ 70.8903, 89.6303,  
13.5641

# Harmonies

## Analogous

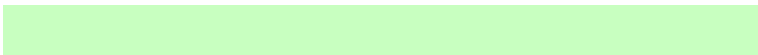
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



94.0969, 94.4498, 48.6108



81.8020, 94.4498, 50.4784



72.5209, 94.4498, 64.3365

# Triad

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



81.8020, 94.4498, 50.4784



75.0648, 94.4498, 165.4081



115.7488, 94.4498, 115.5212

# Complementary

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



81.8020, 94.4498, 50.4784



49.1033, 43.7429, 100.4629

# 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.



109.5618, 94.4498, 154.2697



81.8020, 94.4498, 50.4784



85.5811, 94.4498, 187.2121

# Square

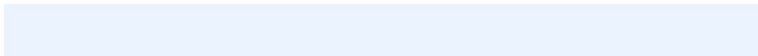
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



81.8020, 94.4498, 50.4784



68.8903, 94.4498, 128.2163



98.2429, 94.4498, 182.7175



114.4963, 94.4498, 81.0540

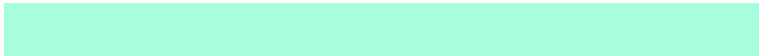


# Rectangle

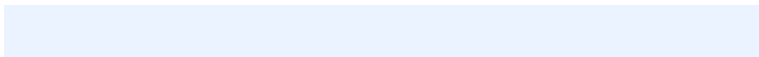
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



81.8020, 94.4498, 50.4784



68.9237, 94.4498, 80.7868



98.2429, 94.4498, 182.7175



114.4494, 94.4498, 128.5800

# Sweetspot

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



81.8023, 94.4499, 50.4797



90.5760, 98.1369, 88.6637



63.1338, 53.8871, 43.6342



19.2616, 20.9530, 18.4168



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

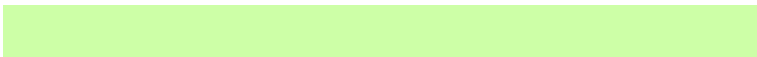
The Same Dimension uses a secret algorithm to generate beautiful new colors.



81.8023, 94.4499, 50.4797



79.9672, 93.6695, 42.9098



67.9493, 87.3084, 49.8314



19.4317, 21.0240, 19.1782



37.0937, 46.8606, 7.0900



3.6470, 4.5808, 0.6920



# Inverse Universe

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



49.1033, 43.7429, 100.4629



43.0461, 36.4030, 99.3655



60.4452, 49.5899, 100.9937



17.1177, 17.4369, 22.7134



9.5981, 3.8585, 49.6735

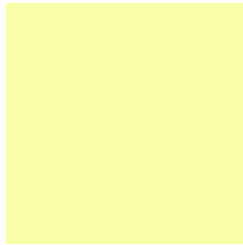


0.9727, 0.3954, 4.8383



# Previews

## White Background



This preview shows how the XYZ color 81.8020, 94.4498, 50.4784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

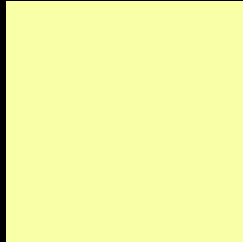
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 81.8020, 94.4498, 50.4784 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

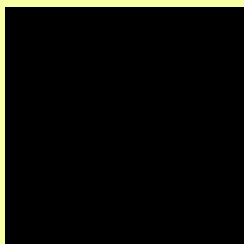
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

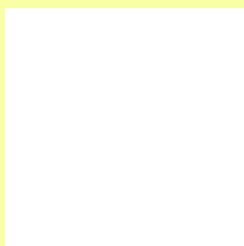
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 81.8020, 94.4498, 50.4784**

## **Background**



This preview shows how black text looks on a background with the XYZ color 81.8020, 94.4498, 50.4784.



This preview shows how white text looks on a background with the XYZ color 81.8020, 94.4498,



# Color Blindness Simulation

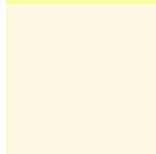
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



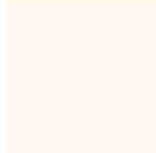
### Original Color

81.8020, 94.4498, 50.4784



### Protanopia

89.1193, 94.6128, 86.9638



### Deuteranopia

90.3779, 94.1324, 96.6250

# Tritanopia

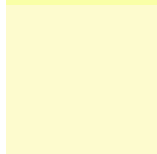
91.8788, 94.2024, 107.9481

# Trichromacy



## Original Color

81.8020, 94.4498, 50.4784



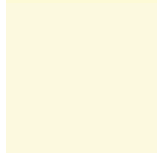
## Protanomaly

86.1458, 94.3332, 72.0603



## Deuteranomaly

86.8312, 94.1089, 77.2067



## Tritanomaly

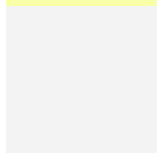
87.3398, 93.7745, 83.3090

# Monochromacy



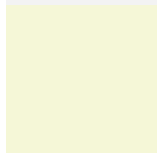
## Original Color

81.8020, 94.4498, 50.4784



## Achromatopsia

85.1904, 89.6269, 97.6037



## Achromatomaly

83.1827, 90.8403, 77.4397

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 81.8020, 94.4498, 50.4784 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(249, 255, 167)` looks like.

```
.text, #text, p{  
    color:rgb(249, 255, 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(249, 255, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 255, 167) }
```

## Border

The CSS property to change the border of an element to XYZ 81.8020, 94.4498, 50.4784 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(249, 255, 167) }
```



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

```
.border{ border-color:rgb(249, 255, 167) }
```

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

Here you see how a box with a 4 pixel rgb(249, 255, 167) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 255, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 255, 167);  
box-shadow:4px 4px 4px 4px rgb(249, 255,  
167) }
```

# Background

The CSS property to change the background color of an element to XYZ 81.8020, 94.4498, 50.4784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 255, 167) }
```

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

```
.background{ background-color: rgb(249,  
255, 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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