

# Converting Colors

XYZ(80.3231, 87.6349, 51.3088)

Have a look what the booklet for  
XYZ(80.3231, 87.6349, 51.3088)  
contains.

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# Color

**XYZ(80.3428, 87.7045,  
51.2222)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF2AB
RGB	255, 242, 171
RGB Percent	100%, 95%, 67%
CMY	0.0000, 0.0510, 0.3294
CMYK	0.00, 0.05, 0.33, 0.00
HSL	51°, 100%, 84%
HSV	51°, 33%, 100%
XYZ	80.3428, 87.7045, 51.2222
YIQ	237.7930, 30.5390, -19.3250

# Conversions

## Conversions Part 2

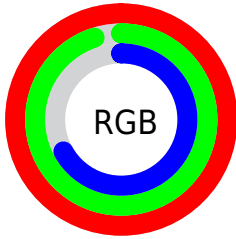
<b>Format</b>	<b>Color</b>
<b>RYB</b>	186, 255, 171
Decimal	16773803
CIELab	95.04, -5.85, 35.89
CIELCh	95, 36.368, 99.251
Yxy	87.7045, 0.3664, 0.4000
Android (android.graphics.Color)	4294963883 (0xFFFFF2AB)
YUV	237.7930, -32.9289, 15.0905
Hunter-Lab	93.6507, -10.7538, 33.1268

# Details

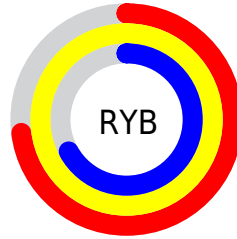
The XYZ color **80.3428, 87.7045, 51.2222** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **51.9847, 50.1574, 101.5492**, and the grayscale version is **81.3399, 85.5759, 93.1921**.

A 20% lighter version of the original color is **90.8651, 98.3261, 86.8628**, and **43.8549, 48.2961, 24.1502** is the 20% darker color. If you saturate the color by 10%, you get **76.9822, 84.5050, 39.2453**, and if you desaturate by 10%, it is **84.2020, 91.1502, 65.6806**.

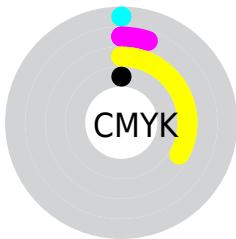
# Distribution



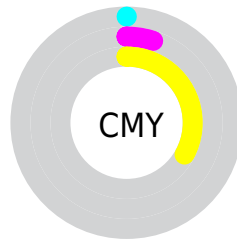
- Red (100%)
- Green (95%)
- Blue (67%)



- Red (73%)
- Yellow (100%)
- Blue (67%)



- Cyan (0%)
- Magenta (5%)
- Yellow (33%)
- Black (0%)



- Cyan (0%)
- Magenta (5%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.3428, 87.7045, 51.2222 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 80.3428, 87.7045, 51.2222 by changing the saturation by 10% instead.





 80.3428, 87.7045,  
51.2222

 80.3428, 87.7045,  
51.2222


484.8063,  
520.5350, 408.2976

 60.3099, 66.0784,  
36.0075


 132.7956,  
144.1457, 93.3980

 43.9189, 48.3360,  
24.1503


165.9462,  
179.7295, 121.1962

 30.8044, 34.0931,  
15.2319


204.2001,  
220.7347, 154.0260

 20.6010, 22.9651,  
8.8339

247.9226,  
267.5457, 192.3059

 12.9435, 14.5677,  
4.5376

297.4792,  
320.5468, 236.4545

 7.4664, 8.5166,  
1.9247

353.2350,

 3.8043, 4.4272,

380.1225, 286.8903

0.5084

415.5556,  
446.6571, 344.0318

■ 1.5921, 1.9153,  
0.0000

■ 0.3872, 0.5576,  
0.0000

■ 80.3428, 87.7045,  
51.2222

■ 80.3428, 87.7045,  
51.2222

■ 76.9822, 84.5050,  
39.2453

■ 84.2020, 91.1502,  
65.6806

■ 74.0865, 81.5286,  
29.6018

■ 88.5783, 94.8404,  
82.7463

■ 71.6279, 78.7670,  
22.1366

■ 93.4973, 98.7887,  
102.5429

■ 69.5727, 76.2066,  
16.6731

95.0500, 100.0000,  
108.9000

■ 67.8820, 73.8314,  
13.0072

■ 66.5086, 71.6225,  
10.8915

■ 65.6818, 70.1436,  
10.0773

# Harmonies

## Analogous

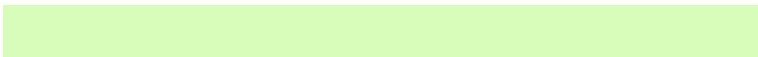
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.2756, 87.7045, 53.1079



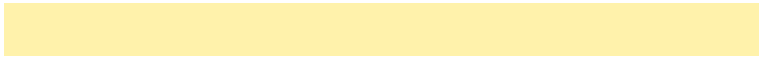
80.3428, 87.7045, 51.2222



71.9058, 87.7045, 59.2469

# Triad

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



80.3428, 87.7045, 51.2222



69.4939, 87.7045, 134.2342



102.4235, 87.7045, 116.1027

# Complementary

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



80.3428, 87.7045, 51.2222



51.9847, 50.1574, 101.5492

# 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.



95.9713, 87.7045, 144.1431



80.3428, 87.7045, 51.2222



76.8078, 87.7045, 155.9646

# Square

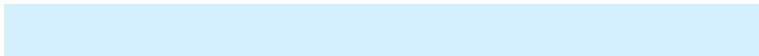
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.3428, 87.7045, 51.2222



65.9763, 87.7045, 104.5141



86.4528, 87.7045, 159.9111



103.5580, 87.7045, 87.0109

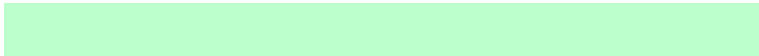


# Rectangle

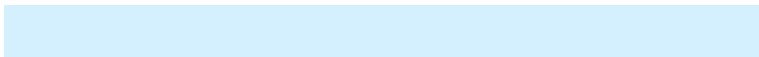
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.3428, 87.7045, 51.2222



68.0724, 87.7045, 70.2851



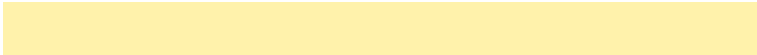
86.4528, 87.7045, 159.9111



100.7816, 87.7045, 126.1106

# Sweetspot

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



80.3450, 87.7085, 51.2240



89.9673, 95.9741, 88.2784



64.5605, 53.8896, 52.8990



19.1133, 20.4258, 18.3229



0.0000, 0.0000, 0.0000

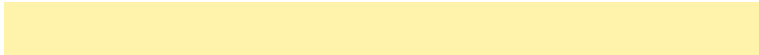


20.3446, 21.4041, 23.3091



# Same Dimension

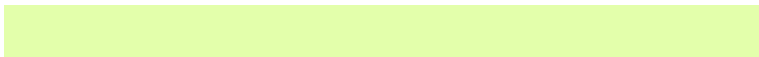
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.3450, 87.7085, 51.2240



77.9212, 85.4228, 42.5184



74.7897, 90.7914, 52.1119



19.3078, 20.5838, 19.0998



34.4103, 36.8318, 5.2956



3.4121, 3.7096, 0.5362



# Inverse Universe

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



51.9847, 50.1574, 101.5492



45.3336, 42.2858, 100.3804



56.1669, 48.4890, 101.0067



17.2298, 17.8312, 22.7836



9.8853, 4.6803, 49.8169



1.0254, 0.5814, 4.8715



# Previews

## White Background



This preview shows how the XYZ color 80.3428, 87.7045, 51.2222 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

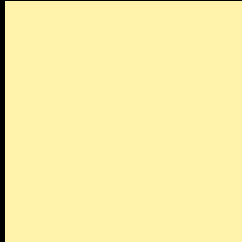
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 80.3428, 87.7045, 51.2222 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 80.3428, 87.7045, 51.2222**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.3428, 87.7045, 51.2222.



This preview shows how white text looks on a background with the XYZ color 80.3428, 87.7045,



# 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

80.3428, 87.7045, 51.2222

### Protanopia

82.0993, 87.9322, 61.9357

### Deuteranopia

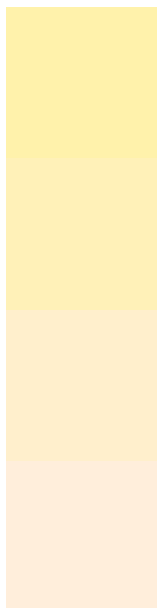
85.1338, 87.7368, 82.2599



## Tritanopia

87.8700, 87.9047, 99.5248

# Trichromacy



## Original Color

80.3428, 87.7045, 51.2222

## Protanomaly

81.3470, 87.6313, 57.9745

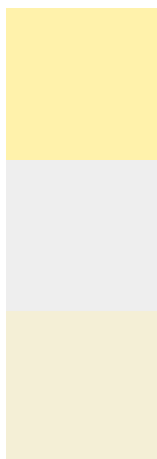
## Deuteranomaly

83.0056, 87.3526, 69.6126

## Tritanomaly

84.6007, 87.5235, 79.4526

# Monochromacy



## Original Color

80.3428, 87.7045, 51.2222

## Achromatopsia

81.2670, 85.4993, 93.1087

## Achromatomaly

80.3123, 85.8211, 75.9506

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.3428, 87.7045, 51.2222 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, 242, 171)` looks like.

```
.text, #text, p{  
    color:rgb(255, 242, 171)  
}
```

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, 242, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 242, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 80.3428, 87.7045, 51.2222 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, 242, 171) }
```



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

```
.border{ border-color:rgb(255, 242, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 242, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 242, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 242, 171);  
box-shadow:4px 4px 4px 4px rgb(255, 242,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.3428, 87.7045, 51.2222 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 242, 171) }
```

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

```
.background{ background-color: rgb(255,  
242, 171) }
```

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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