

# Converting Colors

XYZ(102.9150, 100.0000,  
43.1001)

Have a look what the booklet for  
XYZ(102.9150, 100.0000, 43.1001)  
contains.

<b>XYZ(78.8765, 87.5955, 42.0286)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# **Color**

**XYZ(78.8765, 87.5955,  
42.0286)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF397
RGB	255, 243, 151
RGB Percent	100%, 95%, 59%
CMY	0.0000, 0.0470, 0.4078
CMYK	0.00, 0.05, 0.41, 0.00
HSL	53°, 100%, 80%
HSV	53°, 41%, 100%
XYZ	78.8765, 87.5955, 42.0286
YIQ	236.1000, 36.6840, -26.0680

# Conversions

## Conversions Part 2

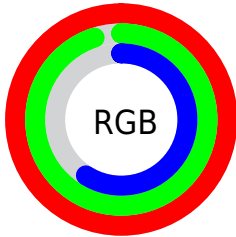
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	165, 255, 151
Decimal	16774039
CIE <sub>Lab</sub>	94.99, -8.54, 45.74
CIE <sub>LCh</sub>	95, 46.532, 100.578
Yxy	87.5955, 0.3783, 0.4201
Android (android.graphics.Color)	4294964119 (0xFFFFF397)
YUV	236.1000, -41.9543, 16.5753
Hunter-Lab	93.5925, -13.3532, 38.8900

# Details

The XYZ color **78.8765, 87.5955, 42.0286** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **43.9095, 39.9926, 100.0127**, and the grayscale version is **80.0989, 84.2702, 91.7703**.

A 20% lighter version of the original color is **88.1406, 97.2362, 72.5155**, and **43.0009, 48.2928, 18.6103** is the 20% darker color. If you saturate the color by 10%, you get **76.1533, 85.1124, 31.9855**, and if you desaturate by 10%, it is **82.0660, 90.2940, 54.4388**.

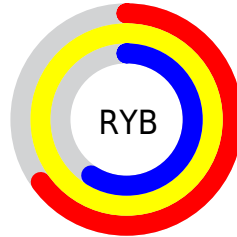
# Distribution



Red (100%)

Green (95%)

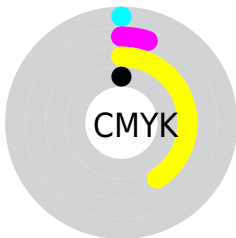
Blue (59%)



Red (65%)

Yellow (100%)

Blue (59%)

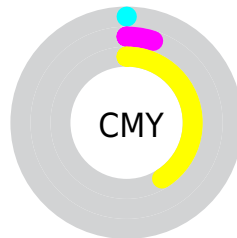


Cyan (0%)

Magenta (5%)

Yellow (41%)

Black (0%)



Cyan (0%)

Magenta (5%)


Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 78.8765, 87.5955, 42.0286 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 78.8765, 87.5955, 42.0286 by changing the saturation by 10% instead.




 78.8765, 87.5955,  
42.0286


 78.8765, 87.5955,  
42.0286


479.9328,  
520.1777, 370.4046

 59.0996, 65.9881,  
28.7979


 130.7438,  
143.9939, 79.5135

 42.9399, 48.2628,  
18.6838


 163.5649,  
179.5537, 104.6048

 30.0323, 34.0350,  
11.2675


201.4648,  
220.5330, 134.4867

 20.0113, 22.9205,  
6.1306

244.8087,  
267.3164, 169.5778

 12.5116, 14.5348,  
2.8546

293.9622,  
320.2882, 210.2966

 7.1678, 8.4936,  
1.0209

349.2904,

 3.6145, 4.4124,

379.8327, 257.0616

0.0000

411.1589,  
446.3344, 310.2915

■ 1.4864, 1.9068,  
0.0000

■ 0.3166, 0.5525,  
0.0000

■ 78.8765, 87.5955,  
42.0286

■ 78.8765, 87.5955,  
42.0286

■ 76.1533, 85.1124,  
31.9855

■ 82.0660, 90.2940,  
54.4388

■ 73.8607, 82.8209,  
24.1505

■ 85.7421, 93.2066,  
69.3504

■ 71.9683, 80.7118,  
18.3535

■ 89.9313, 96.3472,  
86.8944

■ 70.4385, 78.7700,  
14.3977

■ 94.6566, 99.7251,  
107.1908

■ 69.2265, 76.9774, 95.0500, 100.0000,  
12.0468 108.9000

■ 68.3256, 75.4312,  
10.9585

# Harmonies

## Analogous

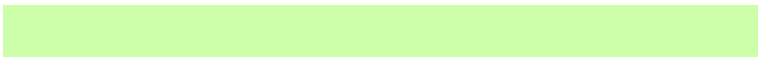
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91.5994, 87.5955, 43.6573



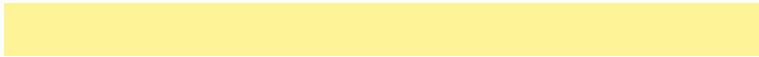
78.8765, 87.5955, 42.0286



68.4330, 87.5955, 51.6909

# Triad

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



78.8765, 87.5955, 42.0286



66.1346, 87.5955, 148.1699



108.3342, 87.5955, 120.4338

# Complementary

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



78.8765, 87.5955, 42.0286



43.9095, 39.9926, 100.0127

# 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.



100.0804, 87.5955, 158.5818



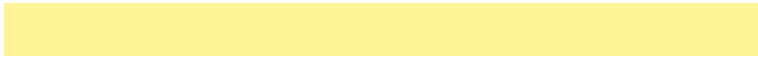
78.8765, 87.5955, 42.0286



75.4369, 87.5955, 177.1907

# Square

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



78.8765, 87.5955, 42.0286



61.5864, 87.5955, 108.7270



87.7965, 87.5955, 181.4208



109.4940, 87.5955, 83.1664

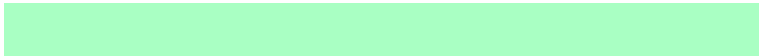


# Rectangle

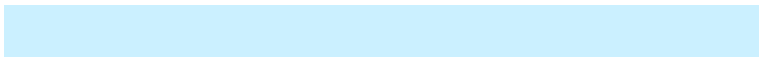
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78.8765, 87.5955, 42.0286



63.8385, 87.5955, 65.1180



87.7965, 87.5955, 181.4208



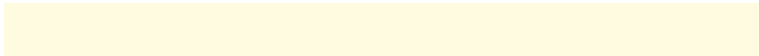
106.2607, 87.5955, 133.8006

# Sweetspot

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



78.8787, 87.5995, 42.0304



89.3934, 95.9526, 84.6149



58.9301, 46.0433, 40.4955



19.0121, 20.4480, 17.5969



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

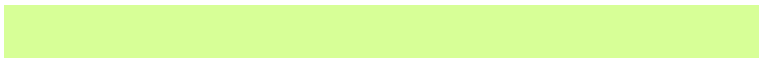
The Same Dimension uses a secret algorithm to generate beautiful new colors.



78.8787, 87.5995, 42.0304



76.6068, 85.5413, 33.6102



69.4099, 88.2218, 42.6496



19.3718, 20.7119, 19.1211



35.7729, 39.5571, 5.7498



3.5317, 3.9487, 0.5760



# Inverse Universe

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



43.9095, 39.9926, 100.0127



37.3066, 32.0559, 98.8289



50.5698, 40.4134, 99.7429



17.1717, 17.7149, 22.7642



9.7195, 4.3486, 49.7617



0.9981, 0.5269, 4.8624



# Previews

## White Background



This preview shows how the XYZ color 78.8765, 87.5955, 42.0286 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 78.8765, 87.5955, 42.0286 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 78.8765, 87.5955, 42.0286**

## **Background**



This preview shows how black text looks on a background with the XYZ color 78.8765, 87.5955, 42.0286.



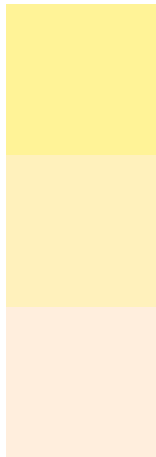
This preview shows how white text looks on a background with the XYZ color 78.8765, 87.5955,



# 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

78.8765, 87.5955, 42.0286

### Protanopia

81.7724, 87.8014, 60.2145

### Deuteranopia

84.8657, 87.6295, 80.8479



## Tritanopia

87.4298, 87.2692, 98.6228

# Trichromacy



## Original Color

78.8765, 87.5955, 42.0286



## Protanomaly

80.7300, 87.8594, 53.2611



## Deuteranomaly

82.3639, 87.5657, 64.7854



## Tritanomaly

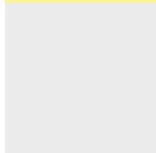
83.5724, 87.1122, 74.0376

# Monochromacy



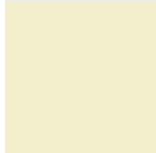
## Original Color

78.8765, 87.5955, 42.0286



## Achromatopsia

79.7278, 83.8799, 91.3452



## Achromatomaly

78.8481, 85.1955, 70.0462

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 78.8765, 87.5955, 42.0286 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, 243, 151)` looks like.

```
.text, #text, p{  
    color:rgb(255, 243, 151)  
}
```

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, 243, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 243, 151) }
```

## Border

The CSS property to change the border of an element to XYZ 78.8765, 87.5955, 42.0286 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, 243, 151) }
```



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

```
.border{ border-color:rgb(255, 243, 151) }
```

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

Here you see how a box with a 4 pixel rgb(255, 243, 151) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 243, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 243, 151);  
box-shadow:4px 4px 4px 4px rgb(255, 243,  
151) }
```

# Background

The CSS property to change the background color of an element to XYZ 78.8765, 87.5955, 42.0286 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 243, 151) }
```

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

```
.background{ background-color: rgb(255,  
243, 151) }
```

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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