

# Converting Colors

XYZ(90.3125, 97.8745, 94.3674)

Have a look what the booklet for  
XYZ(90.3125, 97.8745, 94.3674)  
contains.

<b>XYZ(90.1130, 97.7742, 94.2436)</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(90.1130, 97.7742,  
94.2436)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F9FFED
RGB	249, 255, 237
RGB Percent	98%, 100%, 93%
CMY	0.0235, 0.0000, 0.0706
CMYK	0.02, 0.00, 0.07, 0.00
HSL	80°, 100%, 96%
HSV	80°, 7%, 100%
XYZ	90.1130, 97.7742, 94.2436
YIQ	251.1540, 2.2020, -6.8700

# Conversions

## Conversions Part 2

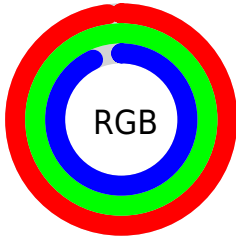
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 255, 243
Decimal	16383981
CIE <sub>Lab</sub>	99.13, -5.07, 7.90
CIE <sub>LCh</sub>	99, 9.389, 122.673
Y <sub>xy</sub>	97.7742, 0.3194, 0.3466
Android (android.graphics.Color)	4294574061 (0xFFFF9FFED)
Y <sub>UV</sub>	251.1540, -6.9779, -1.8891
Hunter-Lab	98.8808, -10.3692, 12.7071

# Details

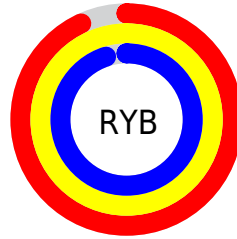
The XYZ color 90.1130, 97.7742, 94.2436 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 85.2971, 86.8442, 106.8747, and the grayscale version is 91.8767, 96.6615, 105.2643.

A 20% lighter version of the original color is 95.0500, 100.0000, 108.9000, and 50.5269, 55.0618, 51.6810 is the 20% darker color. If you saturate the color by 10%, you get 83.6869, 94.8617, 75.8578, and if you desaturate by 10%, it is 95.0500, 100.0000, 108.9000.

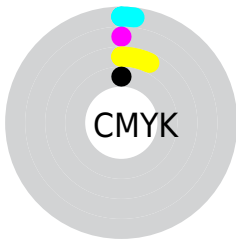
# Distribution



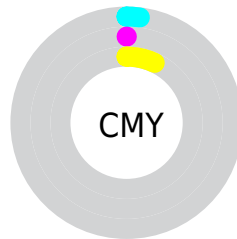
- Red (98%)
- Green (100%)
- Blue (93%)



- Red (93%)
- Yellow (100%)
- Blue (95%)



- Cyan (2%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (2%)
- Magenta (0%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 90.1130, 97.7742, 94.2436 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 90.1130, 97.7742, 94.2436 by changing the saturation by 10% instead.




 90.1130, 97.7742,  
94.2436

 90.1130, 97.7742,  
94.2436


516.6308,  
553.0087, 562.6630

 68.4110, 74.4461,  
70.9122


146.3729,  
158.0918, 155.2058

 50.5070, 55.1592,  
51.7891

181.6615,  
195.8500, 193.6736

 36.0359, 39.5292,  
36.4559


222.2096,  
239.1871, 238.0240

 24.6321, 27.1717,  
24.4941


268.3826,  
288.4874, 288.6754

 15.9305, 17.7022,  
15.4849

320.5459,  
344.1353, 346.0465

 9.5655, 10.7364,  
9.0100

379.0647,

 5.1719, 5.8899,

406.5152, 410.5558

4.6508

444.3046,  
476.0115, 482.6217

■ 2.3843, 2.7782,  
1.9888

■ 0.8373, 1.0171,  
0.5484

■ 90.1130, 97.7742,  
94.2436

■ 90.1130, 97.7742,  
94.2436

■ 83.6869, 94.8617,  
75.8578

95.0500, 100.0000,  
108.9000

■ 77.9030, 92.2216,  
60.1501

■ 72.7363, 89.8439,  
46.9964

■ 68.1593, 87.7172,  
36.2611

■ 64.1419, 85.8294,  
27.7962

■ 60.6510, 84.1669,  
21.4371

■ 57.6492, 82.7146,  
16.9973

■ 55.0929, 81.4547,  
14.2576

■ 52.9267, 80.3650,  
12.9379

# Harmonies

## Analogous

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



92.6856, 97.7742, 92.0719



90.1130, 97.7742, 94.2436



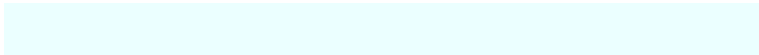
88.3239, 97.7742, 99.6745

# Triad

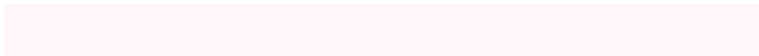
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



90.1130, 97.7742, 94.2436



90.5311, 97.7742, 120.4513



98.3004, 97.7742, 105.7565

# Complementary

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



90.1130, 97.7742, 94.2436



85.2971, 86.8442, 106.8747

# Split Complementary

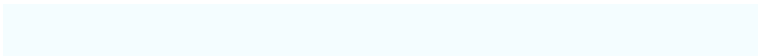
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



97.6965, 97.7742, 113.5456



90.1130, 97.7742, 94.2436



93.1777, 97.7742, 122.2729

# Square

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



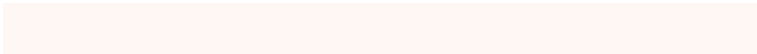
90.1130, 97.7742, 94.2436



88.5619, 97.7742, 114.8243



95.8081, 97.7742, 119.6878



97.4424, 97.7742, 98.5111



# Rectangle

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



90.1130, 97.7742, 94.2436



87.7976, 97.7742, 104.5447



95.8081, 97.7742, 119.6878



98.2616, 97.7742, 108.3975

# Sweetspot

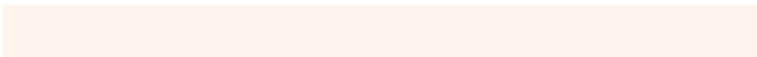
The Sweet Spot groups the original color and five complimentary colors.



90.1137, 97.7745, 94.2451



93.6170, 99.3549, 104.6036



88.4876, 91.2971, 93.0805



20.0530, 21.2728, 22.4345



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.



90.1137, 97.7745, 94.2451



89.4803, 97.4882, 92.3956



87.0840, 96.2126, 94.1033



18.9385, 20.7697, 19.1551



27.5136, 41.9219, 6.6416



2.7949, 4.1416, 0.6521



# Inverse Universe

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



85.2971, 86.8442, 106.8747



84.0560, 85.1790, 106.6187



88.3712, 88.4290, 107.0186



17.5734, 17.6718, 22.7347



11.5291, 4.8540, 49.7638



1.2328, 0.5295, 4.8505



# Previews

## White Background



This preview shows how the XYZ color 90.1130, 97.7742, 94.2436 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

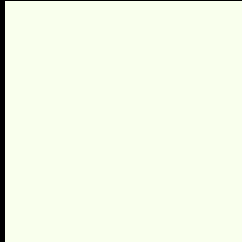
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 90.1130, 97.7742, 94.2436 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

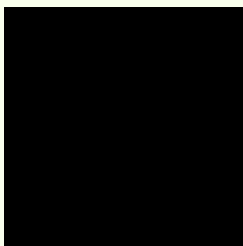
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 90.1130, 97.7742, 94.2436**

## **Background**



This preview shows how black text looks on a background with the XYZ color 90.1130, 97.7742, 94.2436.



This preview shows how white text looks on a background with the XYZ color 90.1130, 97.7742,



# 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

90.1130, 97.7742, 94.2436

### Protanopia

92.8389, 97.5962, 101.9405

### Deuteranopia

93.4630, 97.8458, 105.2269

## **Tritanopia**

93.3684, 97.7235, 108.5492

# Trichromacy



**Original Color**

90.1130, 97.7742, 94.2436

**Protanomaly**

91.8110, 97.6043, 98.7946

**Deuteranomaly**

92.2678, 97.7870, 101.2005

**Tritanomaly**

92.2134, 97.7233, 102.8093

# Monochromacy



**Original Color**

90.1130, 97.7742, 94.2436

**Achromatopsia**

91.6934, 96.4686, 105.0543

**Achromatomaly**

90.8693, 96.5986, 101.0449

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 90.1130, 97.7742, 94.2436 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, 237) looks like.

```
.text, #text, p{  
    color:rgb(249, 255, 237)  
}
```

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, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 255, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 90.1130, 97.7742, 94.2436 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, 237) }
```



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

```
.border{ border-color:rgb(249, 255, 237) }
```

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, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 255, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 255, 237);  
box-shadow:4px 4px 4px 4px rgb(249, 255,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 90.1130, 97.7742, 94.2436 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, 237) }
```

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

```
.background{ background-color: rgb(249,  
255, 237) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor