

# Converting Colors

XYZ(133.6130, 146.3408,  
91.8111)

Have a look what the booklet for  
XYZ(133.6130, 146.3408, 91.8111)  
contains.

<b>XYZ(90.4545, 98.1618, 84.7007)</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(90.4545, 98.1618,  
84.7007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFE0
RGB	255, 255, 224
RGB Percent	100%, 100%, 88%
CMY	0.0000, 0.0000, 0.1216
CMYK	0.00, 0.00, 0.12, 0.00
HSL	60°, 100%, 94%
HSV	60°, 12%, 100%
XYZ	90.4545, 98.1618, 84.7007
YIQ	251.4660, 9.9510, -9.6410

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	224, 255, 224
Decimal	16777184
CIE Lab	99.28, -5.10, 14.83
CIE LCh	99, 15.682, 108.992
Yxy	98.1618, 0.3310, 0.3591
Android (android.graphics.Color)	4294967264 (0xFFFFFFFFE0)
YUV	251.4660, -13.5407, 3.0993
Hunter-Lab	99.0766, -10.4181, 18.6666

# Details

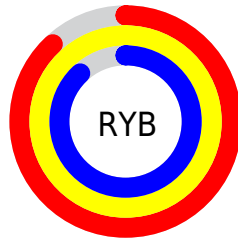
The XYZ color **90.4545, 98.1618, 84.7007** is a light color, and the websafe version is hex **FFFFCC**, and the color name is **lightyellow**. A complement of this color would be **75.4473, 76.3800, 105.3741**, and the grayscale version is **92.1843, 96.9850, 105.6167**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **50.6442, 55.2585, 45.5328** is the 20% darker color. If you saturate the color by 10%, you get **87.2511, 96.8804, 67.8314**, and if you desaturate by 10%, it is **94.1773, 99.6509, 104.3045**.

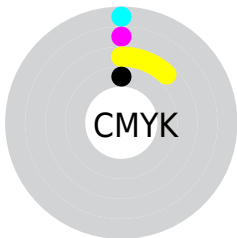
# Distribution



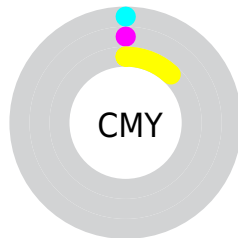
- Red (100%)
- Green (100%)
- Blue (88%)



- Red (88%)
- Yellow (100%)
- Blue (88%)



- Cyan (0%)
- Magenta (0%)
- Yellow (12%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 90.4545, 98.1618, 84.7007 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 90.4545, 98.1618, 84.7007 by changing the saturation by 10% instead.




 90.4545, 98.1618,  
84.7007

 90.4545, 98.1618,  
84.7007


517.7241,  
554.2384, 530.7559

 68.6952, 74.7693,  
63.0454


146.8447,  
158.6256, 141.8254

 50.7392, 55.4239,  
45.4367


182.2063,  
196.4657, 178.1318

 36.2213, 39.7412,  
31.4561


222.8327,  
239.8905, 220.1590

 24.7761, 27.3368,  
20.6850

269.0892,  
289.2844, 268.3256

 16.0381, 17.8264,  
12.7050

321.3413,  
345.0317, 323.0500

 9.6422, 10.8254,  
7.0974

379.9542,

 5.2228, 5.9496,

407.5169, 384.7509

3.4437

445.2934,  
477.1243, 453.8466

■ 2.4147, 2.8144,  
1.3254

■ 0.8524, 1.0356,  
0.0825

■ 90.4545, 98.1618,  
84.7007

■ 90.4545, 98.1618,  
84.7007

■ 87.2511, 96.8804,  
67.8314

■ 94.1773, 99.6509,  
104.3045

■ 84.5430, 95.7972,  
53.5710

95.0500, 100.0000,  
108.9000

■ 82.3060, 94.9024,  
41.7908

■ 80.5130, 94.1852,  
32.3491

■ 79.1345, 93.6338,  
25.0902

■ 78.1374, 93.2350,  
19.8394

■ 77.4834, 92.9734,  
16.3954

■ 77.1263, 92.8305,  
14.5150

■ 77.0000, 92.7800,  
13.8500

# Harmonies

## Analogous

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



94.9967, 98.1618, 83.9223



90.4545, 98.1618, 84.7007



86.7914, 98.1618, 91.1264

# Triad

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



90.4545, 98.1618, 84.7007



87.6229, 98.1618, 127.1313



102.2421, 98.1618, 111.7851

# Complementary

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



90.4545, 98.1618, 84.7007



75.4473, 76.3800, 105.3741

# 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.



100.1257, 98.1618, 124.3553



90.4545, 98.1618, 84.7007



91.6234, 98.1618, 133.6871

# Square

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



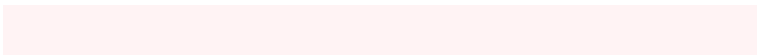
90.4545, 98.1618, 84.7007



85.1941, 98.1618, 115.3279



96.2042, 98.1618, 132.6315



101.9041, 98.1618, 98.8580



# Rectangle

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



90.4545, 98.1618, 84.7007



85.2941, 98.1618, 98.0664



96.2042, 98.1618, 132.6315



101.7915, 98.1618, 116.2096

# Sweetspot

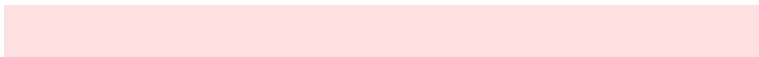
The Sweet Spot groups the original color and five complimentary colors.



90.4548, 98.1619, 84.7021



93.4509, 99.3604, 100.4793



81.3510, 79.9543, 81.6675



19.9400, 21.2423, 21.1786



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

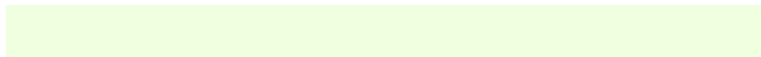
The Same Dimension uses a secret algorithm to generate beautiful new colors.



90.4548, 98.1619, 84.7021



89.4919, 97.7768, 79.6314



84.9808, 95.3400, 84.4459



19.5613, 21.0908, 19.1843



40.2342, 48.4795, 7.2369



3.9175, 4.7203, 0.7046



# Inverse Universe

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



75.4473, 76.3800, 105.3741



71.3395, 71.4304, 104.6352



80.4722, 78.9705, 105.6092



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657



0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 90.4545, 98.1618, 84.7007 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

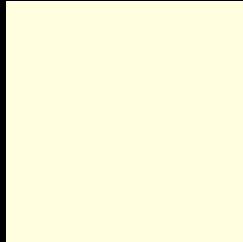
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 90.4545, 98.1618, 84.7007 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

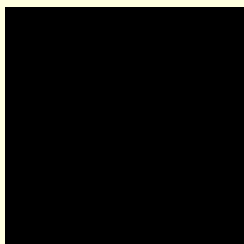
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

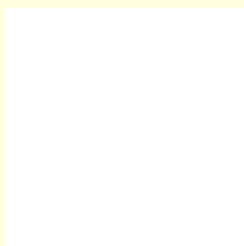
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 90.4545, 98.1618, 84.7007**

## **Background**



This preview shows how black text looks on a background with the XYZ color 90.4545, 98.1618, 84.7007.



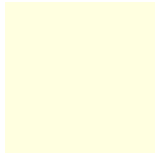
This preview shows how white text looks on a background with the XYZ color 90.4545, 98.1618,



# 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

90.4545, 98.1618, 84.7007



### Protanopia

93.3086, 98.2879, 102.8605

### Deuteranopia

93.6211, 97.9091, 106.0594

## **Tritanopia**

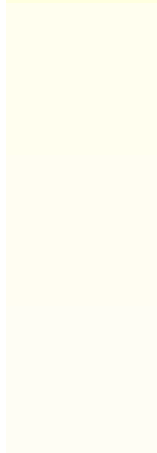
93.7335, 97.9116, 108.5663

# Trichromacy



## Original Color

90.4545, 98.1618, 84.7007



## Protanomaly

92.2618, 98.3756, 95.7870

## Deuteranomaly

92.3923, 97.9214, 98.0355

## Tritanomaly

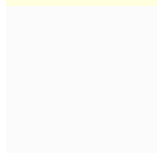
92.3275, 97.8530, 99.6093

# Monochromacy



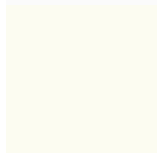
## Original Color

90.4545, 98.1618, 84.7007



## Achromatopsia

91.6934, 96.4686, 105.0543



## Achromatomaly

90.8325, 96.6671, 97.0903

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 90.4545, 98.1618, 84.7007 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, 255, 224)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 224)  
}
```

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, 255, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 90.4545, 98.1618, 84.7007 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, 255, 224) }
```



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

```
.border{ border-color:rgb(255, 255, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 224);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 90.4545, 98.1618, 84.7007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 224) }
```

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

```
.background{ background-color: rgb(255,  
255, 224) }
```

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