

# Converting Colors

XYZ(199.0529, 230.5095,  
74.8904)

Have a look what the booklet for  
XYZ(199.0529, 230.5095, 74.8904)  
contains.

<b>XYZ(84.8365, 95.9146, 55.1163)</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(84.8365, 95.9146,  
55.1163)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFB0
RGB	255, 255, 176
RGB Percent	100%, 100%, 69%
CMY	0.0000, 0.0000, 0.3098
CMYK	0.00, 0.00, 0.31, 0.00
HSL	60°, 100%, 85%
HSV	60°, 31%, 100%
XYZ	84.8365, 95.9146, 55.1163
YIQ	245.9940, 25.3590, -24.5690

# Conversions

## Conversions Part 2

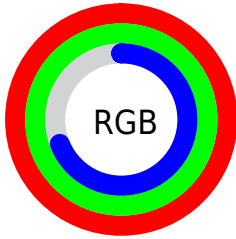
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	176, 255, 176
Decimal	16777136
CIE Lab	98.40, -11.68, 37.85
CIE LCh	98, 39.607, 107.155
Yxy	95.9146, 0.3597, 0.4066
Android (android.graphics.Color)	4294967216 (0xFFFFFFFFB0)
YUV	245.9940, -34.5070, 7.8983
Hunter-Lab	97.9360, -16.7634, 35.1880

# Details

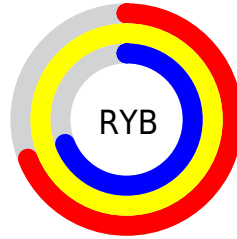
The XYZ color **84.8365, 95.9146, 55.1163** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **51.4809, 47.5021, 101.0632**, and the grayscale version is **87.8474, 92.4223, 100.6479**.

A 20% lighter version of the original color is **91.5655, 98.6062, 90.5508**, and **46.7952, 53.6885, 26.6354** is the 20% darker color. If you saturate the color by 10%, you get **82.5456, 94.9982, 43.0527**, and if you desaturate by 10%, it is **87.6018, 97.0207, 69.6785**.

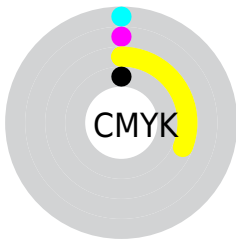
# Distribution



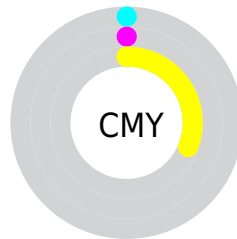
- Red (100%)
- Green (100%)
- Blue (69%)



- Red (69%)
- Yellow (100%)
- Blue (69%)



- Cyan (0%)
- Magenta (0%)
- Yellow (31%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 84.8365, 95.9146, 55.1163 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 84.8365, 95.9146, 55.1163 by changing the saturation by 10% instead.




 84.8365, 95.9146,  
55.1163

 84.8365, 95.9146,  
55.1163


499.5787,  
547.0888, 423.6470

 64.0283, 72.8964,  
39.0956


 139.0599,  
155.5276, 99.1842

 46.9354, 53.8913,  
26.5257


173.2059,  
192.8911, 128.0685

 33.1923, 38.5148,  
16.9881


212.5285,  
235.8053, 162.0777

 22.4338, 26.3824,  
10.0641

257.3931,  
284.6545, 201.6304

 14.2943, 17.1100,  
5.3353

308.1651,  
339.8230, 247.1452

 8.4087, 10.3129,  
2.3832

365.2098,

 4.4116, 5.6069,

401.6953, 299.0405

0.7773

428.8925,  
470.6558, 357.7349

■ 1.9375, 2.6076,  
0.0000

■ 0.5985, 0.9305,  
0.0000

■ 84.8365, 95.9146,  
55.1163

■ 84.8365, 95.9146,  
55.1163

■ 82.5456, 94.9982,  
43.0527

■ 87.6018, 97.0207,  
69.6785

■ 80.7018, 94.2607,  
33.3436

■ 90.8655, 98.3262,  
86.8646

■ 79.2762, 93.6905,  
25.8365

■ 94.6505, 99.8402,  
106.7960

■ 78.2361, 93.2744,  
20.3593

■ 95.0500, 100.0000,  
108.9000

■ 77.5439, 92.9976,  
16.7143

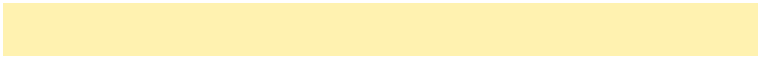
■ 77.1547, 92.8419,  
14.6645

■ 77.0000, 92.7800,  
13.8500

# Harmonies

## Analogous

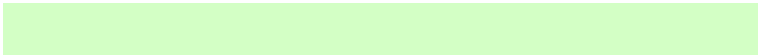
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



96.1353, 95.9146, 54.3203



84.8365, 95.9146, 55.1163



75.9870, 95.9146, 67.2283

# Triad

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



84.8365, 95.9146, 55.1163



77.0266, 95.9146, 157.6887



114.3033, 95.9146, 119.0547

# Complementary

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



84.8365, 95.9146, 55.1163



51.4809, 47.5021, 101.0632

# 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.



108.2381, 95.9146, 153.3253



84.8365, 95.9146, 55.1163



86.3670, 95.9146, 178.5681

# Square

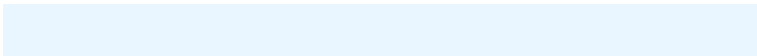
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



84.8365, 95.9146, 55.1163



71.7432, 95.9146, 124.1131



97.7984, 95.9146, 176.8224



113.8067, 95.9146, 86.9546

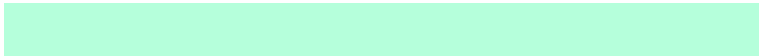


# Rectangle

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



84.8365, 95.9146, 55.1163



72.3808, 95.9146, 81.8640



97.7984, 95.9146, 176.8224



112.9443, 95.9146, 130.8139

# Sweetspot

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



84.8367, 95.9147, 55.1176



91.5726, 98.6090, 90.5882



64.6025, 55.4463, 48.3729



19.4886, 21.0617, 18.8015



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

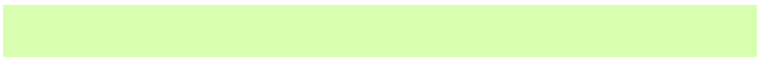
The Same Dimension uses a secret algorithm to generate beautiful new colors.



84.8367, 95.9147, 55.1176



83.4022, 95.3409, 47.5635



71.7685, 89.1778, 54.5060



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.



51.4809, 47.5021, 101.0632



45.3613, 40.1283, 99.9625



61.7476, 52.7947, 101.5437



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

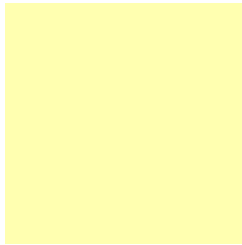


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 84.8365, 95.9146, 55.1163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

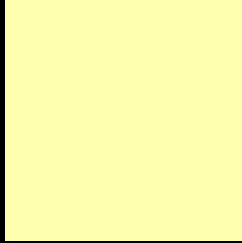
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 84.8365, 95.9146, 55.1163 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

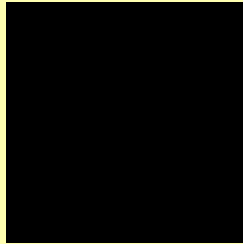
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 84.8365, 95.9146, 55.1163**

## **Background**



This preview shows how black text looks on a background with the XYZ color 84.8365, 95.9146, 55.1163.



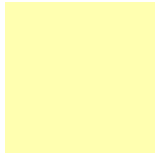
This preview shows how white text looks on a background with the XYZ color 84.8365, 95.9146,



# Color Blindness Simulation

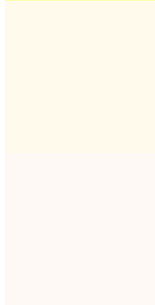
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

84.8365, 95.9146, 55.1163



### Protanopia

90.5659, 95.6873, 93.0530

### Deuteranopia

91.5971, 95.6039, 100.0119

## **Tritanopia**

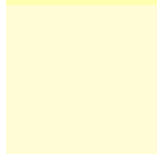
92.6968, 95.5506, 107.3234

# Trichromacy



## Original Color

84.8365, 95.9146, 55.1163



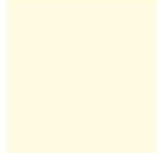
## Protanomaly

88.1880, 95.7358, 77.4492



## Deuteranomaly

88.6554, 95.4217, 81.4557



## Tritanomaly

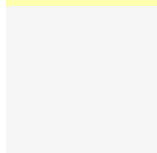
89.4646, 95.7453, 85.7169

# Monochromacy



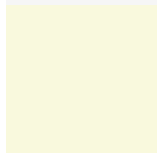
## Original Color

84.8365, 95.9146, 55.1163



## Achromatopsia

87.5964, 92.1582, 100.3603



## Achromatomaly

85.9937, 93.1116, 81.8466

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 84.8365, 95.9146, 55.1163 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, 176)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 176)  
}
```

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, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 84.8365, 95.9146, 55.1163 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, 176) }
```



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

```
.border{ border-color:rgb(255, 255, 176) }
```

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, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 255, 176); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 255, 176); box-shadow:4px 4px 4px 4px rgb(255, 255, 176) }
```

# Background

The CSS property to change the background color of an element to XYZ 84.8365, 95.9146, 55.1163 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, 176) }
```

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

```
.background{ background-color: rgb(255,  
255, 176) }
```

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