

# Converting Colors

XYZ(189.4161, 211.7048,  
83.8333)

Have a look what the booklet for  
XYZ(189.4161, 211.7048, 83.8333)  
contains.

<b>XYZ(87.0780, 96.8112, 66.9203)</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(87.0780, 96.8112,  
66.9203)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFC5
RGB	255, 255, 197
RGB Percent	100%, 100%, 77%
CMY	0.0000, 0.0000, 0.2274
CMYK	0.00, 0.00, 0.23, 0.00
HSL	60°, 100%, 89%
HSV	60°, 23%, 100%
XYZ	87.0780, 96.8112, 66.9203
YIQ	248.3880, 18.6180, -18.0380

# Conversions

## Conversions Part 2

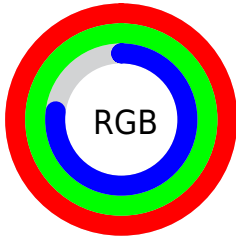
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	197, 255, 197
Decimal	16777157
CIE Lab	98.75, -9.01, 27.81
CIE LCh	99, 29.230, 107.956
Yxy	96.8112, 0.3472, 0.3860
Android (android.graphics.Color)	4294967237 (0xFFFFFFFFC5)
YUV	248.3880, -25.3343, 5.7987
Hunter-Lab	98.3927, -14.2138, 28.5497

# Details

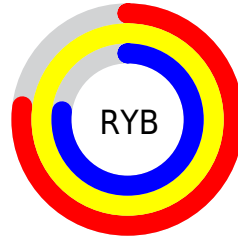
The XYZ color **87.0780, 96.8112, 66.9203** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **61.0433, 59.0242, 102.7832**, and the grayscale version is **89.7298, 94.4027, 102.8046**.

A 20% lighter version of the original color is **94.8894, 99.9358, 108.0543**, and **48.4407, 54.3771, 33.9293** is the 20% darker color. If you saturate the color by 10%, you get **84.3987, 95.7395, 52.8109**, and if you desaturate by 10%, it is **90.2523, 98.0809, 83.6355**.

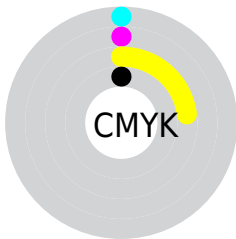
# Distribution



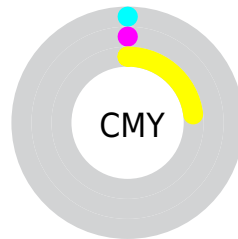
- Red (100%)
- Green (100%)
- Blue (77%)



- Red (77%)
- Yellow (100%)
- Blue (77%)



- Cyan (0%)
- Magenta (0%)
- Yellow (23%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 87.0780, 96.8112, 66.9203 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 87.0780, 96.8112, 66.9203 by changing the saturation by 10% instead.




 87.0780, 96.8112,  
66.9203

 87.0780, 96.8112,  
66.9203

506.8598,  
549.9472, 468.1548

 65.8880, 73.6434,  
48.5587


142.1720,  
156.7645, 116.4458

 48.4489, 54.5022,  
33.9064


176.8066,  
194.3187, 148.4467

 34.3952, 39.0033,  
22.5449


216.6536,  
237.4372, 185.8311

 23.3617, 26.7623,  
14.0557

262.0782,  
286.5043, 229.0176

 14.9830, 17.3948,  
8.0202

313.4457,  
341.9045, 278.4246

 8.8937, 10.5164,  
4.0199

371.1216,

 4.7284, 5.7426,

404.0221, 334.4708

1.6363

435.4712,  
473.2416, 397.5747

■ 2.1219, 2.6892,  
0.3165

■ 0.7011, 0.9717,  
0.0000

■ 87.0780, 96.8112,  
66.9203

■ 87.0780, 96.8112,  
66.9203

■ 84.3987, 95.7395,  
52.8109

■ 90.2523, 98.0809,  
83.6355

■ 82.1885, 94.8554,  
41.1722

■ 93.9436, 99.5575,  
103.0740

■ 80.4207, 94.1483,  
31.8634

95.0500, 100.0000,  
108.9000

■ 79.0657, 93.6063,  
24.7276

■ 78.0898, 93.2159,  
19.5890

■ 77.4547, 92.9619,  
16.2442

■ 77.1133, 92.8253,  
14.4468

■ 77.0000, 92.7800,  
13.8500

# Harmonies

## Analogous

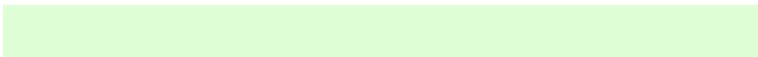
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



95.4622, 96.8112, 66.0032



87.0780, 96.8112, 66.9203



80.4253, 96.8112, 77.1162

# Triad

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



87.0780, 96.8112, 66.9203



81.5178, 96.8112, 144.0526



108.9102, 96.8112, 115.4631

# Complementary

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



87.0780, 96.8112, 66.9203



61.0433, 59.0242, 102.7832

# 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.



104.6704, 96.8112, 139.8970



87.0780, 96.8112, 66.9203



88.6540, 96.8112, 158.0223

# Square

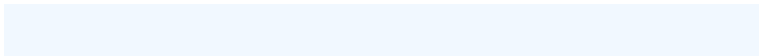
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.0780, 96.8112, 66.9203



77.3535, 96.8112, 120.4802



97.1375, 96.8112, 156.3943



108.4236, 96.8112, 91.6537

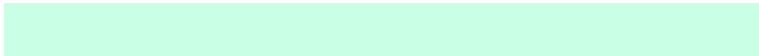


# Rectangle

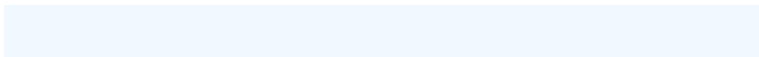
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87.0780, 96.8112, 66.9203



77.7085, 96.8112, 88.8305



97.1375, 96.8112, 156.3943



107.9802, 96.8112, 123.9359

# Sweetspot

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



87.0783, 96.8113, 66.9217



92.3080, 98.9032, 94.4608



71.2851, 65.2249, 61.6573



19.7097, 21.1502, 19.9658



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

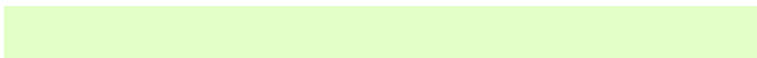
The Same Dimension uses a secret algorithm to generate beautiful new colors.



87.0783, 96.8113, 66.9217



85.8789, 96.3316, 60.6056



77.2027, 91.7203, 66.4595



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.



61.0433, 59.0242, 102.7832



55.9267, 52.8589, 101.8629



69.3812, 63.3225, 103.1734



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

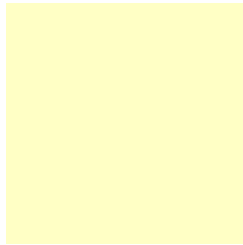


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 87.0780, 96.8112, 66.9203 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

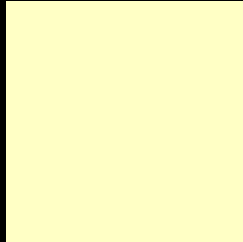
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 87.0780, 96.8112, 66.9203 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

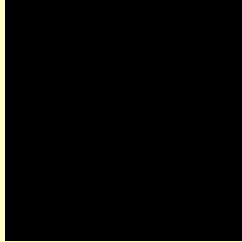
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 87.0780, 96.8112, 66.9203

## Background



This preview shows how black text looks on a background with the XYZ color 87.0780, 96.8112, 66.9203.



This preview shows how white text looks on a background with the XYZ color 87.0780, 96.8112,



# 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

87.0780, 96.8112, 66.9203



### Protanopia

91.6144, 96.6052, 97.0372

### Deuteranopia

92.6805, 97.0317, 102.6511

## Tritanopia

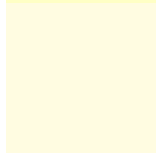
93.4756, 96.8512, 108.3752

# Trichromacy



## Original Color

87.0780, 96.8112, 66.9203



## Protanomaly

89.6410, 96.3170, 85.1006



## Deuteranomaly

90.1933, 96.5380, 88.0087



## Tritanomaly

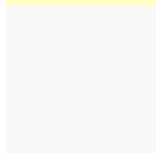
90.9017, 96.8213, 91.7393

# Monochromacy



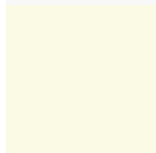
## Original Color

87.0780, 96.8112, 66.9203



## Achromatopsia

89.2221, 93.8686, 102.2229



## Achromatomaly

88.4237, 95.1607, 87.8362

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 87.0780, 96.8112, 66.9203 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, 197)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 197)  
}
```

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, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 197) }
```

## Border

The CSS property to change the border of an element to XYZ 87.0780, 96.8112, 66.9203 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, 197) }
```



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

```
.border{ border-color:rgb(255, 255, 197) }
```

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, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 197); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 197);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
197) }
```

# Background

The CSS property to change the background color of an element to XYZ 87.0780, 96.8112, 66.9203 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, 197) }
```

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

```
.background{ background-color: rgb(255,  
255, 197) }
```

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