

# Converting Colors

XYZ(116.5499, 144.2036,  
84.3777)

Have a look what the booklet for  
XYZ(116.5499, 144.2036, 84.3777)  
contains.

<b>XYZ(89.0102, 97.5841, 77.0951)</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(89.0102, 97.5841,  
77.0951)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFD5
RGB	255, 255, 213
RGB Percent	100%, 100%, 84%
CMY	0.0000, 0.0000, 0.1647
CMYK	0.00, 0.00, 0.16, 0.00
HSL	60°, 100%, 92%
HSV	60°, 16%, 100%
XYZ	89.0102, 97.5841, 77.0951
YIQ	250.2120, 13.4820, -13.0620

# Conversions

## Conversions Part 2

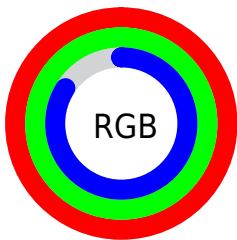
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	213, 255, 213
Decimal	16777173
CIE Lab	99.06, -6.76, 20.12
CIE LCh	99, 21.222, 108.571
Yxy	97.5841, 0.3376, 0.3701
Android (android.graphics.Color)	4294967253 (0xFFFFFFFFD5)
YUV	250.2120, -18.3455, 4.1991
Hunter-Lab	98.7847, -12.0352, 22.8772

# Details

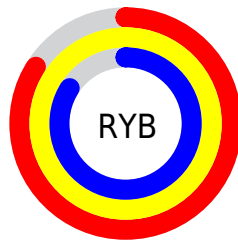
The XYZ color **89.0102, 97.5841, 77.0951** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **69.2860, 68.9560, 104.2658**, and the grayscale version is **91.1796, 95.9281, 104.4657**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **49.6543, 54.8626, 40.3202** is the 20% darker color. If you saturate the color by 10%, you get **86.0235, 96.3894, 61.3671**, and if you desaturate by 10%, it is **92.5065, 98.9826, 95.5062**.

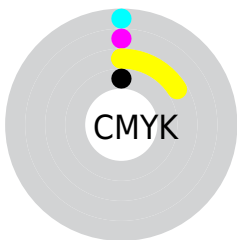
# Distribution



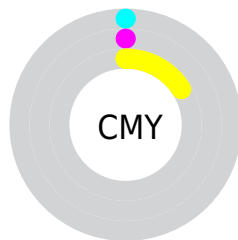
- Red (100%)
- Green (100%)
- Blue (84%)



- Red (84%)
- Yellow (100%)
- Blue (84%)



- Cyan (0%)
- Magenta (0%)
- Yellow (16%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 89.0102, 97.5841, 77.0951 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 89.0102, 97.5841, 77.0951 by changing the saturation by 10% instead.




 89.0102, 97.5841,  
77.0951

 89.0102, 97.5841,  
77.0951


513.0918,  
552.4050, 504.5345

 67.4936, 74.2876,  
56.8189


144.8481,  
157.8299, 131.0480

 49.7580, 55.0294,  
40.4515


179.9001,  
195.5479, 165.5617

 35.4382, 39.4253,  
27.5743


220.1946,  
238.8419, 205.6584

 24.1687, 27.0907,  
17.7687

266.0969,  
288.0962, 251.7565

 15.5842, 17.6414,  
10.6164

317.9724,  
343.6953, 304.2746

 9.3194, 10.6928,  
5.6986

376.1865,

 5.0089, 5.8607,

406.0235, 363.6313

2.5969

441.1045,  
475.4653, 430.2451

■ 2.2873, 2.7606,  
0.8908

■ 0.7881, 1.0080,  
0.0000

■ 89.0102, 97.5841,  
77.0951

■ 89.0102, 97.5841,  
77.0951

■ 86.0235, 96.3894,  
61.3671

■ 92.5065, 98.9826,  
95.5062

■ 83.5218, 95.3887,  
48.1932

95.0500, 100.0000,  
108.9000

■ 81.4797, 94.5719,  
37.4399

■ 79.8694, 93.9277,  
28.9598

■ 78.6597, 93.4439,  
22.5900

■ 77.8157, 93.1063,  
18.1452

■ 77.2960, 92.8984,  
15.4089

■ 77.0493, 92.7997,  
14.1097

■ 77.0000, 92.7800,  
13.8500

# Harmonies

## Analogous

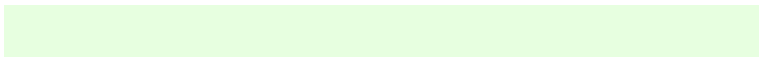
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



95.1303, 97.5841, 76.2108



89.0102, 97.5841, 77.0951



84.1067, 97.5841, 85.2482

# Triad

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



89.0102, 97.5841, 77.0951



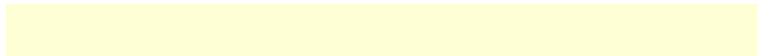
85.0931, 97.5841, 133.9254



104.9178, 97.5841, 113.1540

# Complementary

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



89.0102, 97.5841, 77.0951



69.2860, 68.9560, 104.2658

# 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.



101.9676, 97.5841, 130.4513



89.0102, 97.5841, 77.0951



90.4113, 97.5841, 143.3036

# Square

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



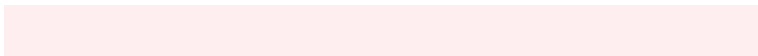
89.0102, 97.5841, 77.0951



81.9156, 97.5841, 117.4867



96.5947, 97.5841, 141.9658



104.5016, 97.5841, 95.7583



# Rectangle

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



89.0102, 97.5841, 77.0951



82.1027, 97.5841, 94.2745



96.5947, 97.5841, 141.9658



104.2818, 97.5841, 119.2044

# Sweetspot

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



89.0105, 97.5842, 77.0965



93.0646, 99.2058, 98.4450



77.0453, 73.6538, 73.1081



19.8622, 21.2112, 20.7689



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

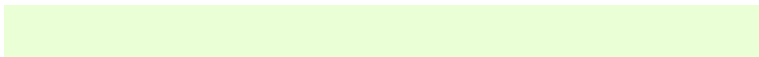
The Same Dimension uses a secret algorithm to generate beautiful new colors.



89.0105, 97.5842, 77.0965



87.8991, 97.1396, 71.2438



81.7025, 93.8168, 76.7545



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.



69.2860, 68.9560, 104.2658



64.5447, 63.2431, 103.4130



75.7768, 72.3022, 104.5696



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 89.0102, 97.5841, 77.0951 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

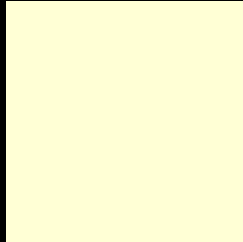
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 89.0102, 97.5841, 77.0951 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

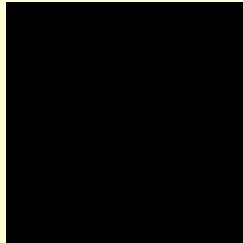
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 89.0102, 97.5841, 77.0951

## Background



This preview shows how black text looks on a background with the XYZ color 89.0102, 97.5841, 77.0951.



This preview shows how white text looks on a background with the XYZ color 89.0102, 97.5841,

77.0951.

# 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

89.0102, 97.5841, 77.0951

### Protanopia

92.5318, 97.4734, 100.3235

### Deuteranopia

93.3057, 97.7829, 104.3987

## **Tritanopia**

93.4202, 97.2852, 108.4619

# Trichromacy



## Original Color

89.0102, 97.5841, 77.0951

## Protanomaly

91.0733, 97.3938, 91.0896

## Deuteranomaly

91.6513, 97.6250, 94.1337

## Tritanomaly

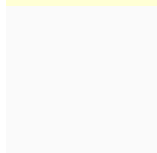
91.4116, 96.9829, 96.3397

# Monochromacy



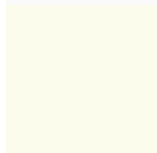
## Original Color

89.0102, 97.5841, 77.0951



## Achromatopsia

90.8653, 95.5973, 104.1055



## Achromatomaly

90.2413, 96.4307, 93.9775

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 89.0102, 97.5841, 77.0951 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, 213)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 213)  
}
```

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, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 89.0102, 97.5841, 77.0951 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, 213) }
```



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

```
.border{ border-color:rgb(255, 255, 213) }
```

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, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 213);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 89.0102, 97.5841, 77.0951 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, 213) }
```

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

```
.background{ background-color: rgb(255,  
255, 213) }
```

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