

# Converting Colors

XYZ(77.8023, 84.1679, 80.2723)

Have a look what the booklet for  
XYZ(77.8023, 84.1679, 80.2723)  
contains.

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# Color

**XYZ(77.8866, 84.0317,  
80.5213)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EBEEDD
RGB	235, 238, 221
RGB Percent	92%, 93%, 87%
CMY	0.0784, 0.0666, 0.1333
CMYK	0.01, 0.00, 0.07, 0.07
HSL	71°, 33%, 90%
HSV	71°, 7%, 93%
XYZ	77.8866, 84.0317, 80.5213
YIQ	235.1650, 3.6690, -5.9230

# Conversions

## Conversions Part 2

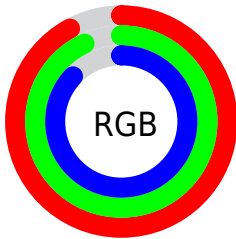
Format	Color
RYB	221, 238, 224
Decimal	15462109
CIELab	93.46, -3.94, 7.87
CIELCh	93, 8.800, 116.581
Yxy	84.0317, 0.3213, 0.3466
Android (android.graphics.Color)	4293652189 (0xFFEBEEDD)
YUV	235.1650, -6.9833, -0.1447
Hunter-Lab	91.6688, -8.7575, 12.0882

# Details

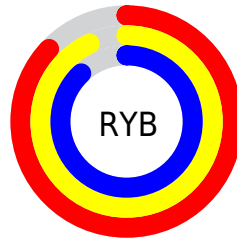
The XYZ color **77.8866, 84.0317, 80.5213** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **72.0329, 73.7356, 91.3292**, and the grayscale version is **79.1428, 83.2644, 90.6749**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.2013, 45.7928, 42.6910** is the 20% darker color. If you saturate the color by 10%, you get **73.5663, 82.1478, 64.9230**, and if you desaturate by 10%, it is **82.6939, 86.1197, 98.4924**.

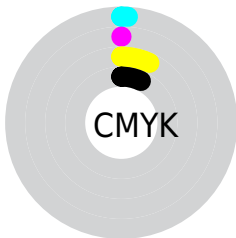
# Distribution



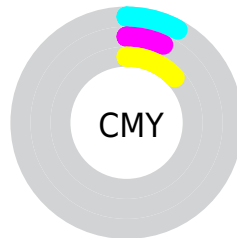
- Red (92%)
- Green (93%)
- Blue (87%)



- Red (87%)
- Yellow (93%)
- Blue (88%)



- Cyan (1%)
- Magenta (0%)
- Yellow (7%)
- Black (7%)



- Cyan (8%)
- Magenta (7%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8866, 84.0317, 80.5213 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 77.8866, 84.0317, 80.5213 by changing the saturation by 10% instead.



■ 77.8866, 84.0317,  
80.5213

■ 77.8866, 84.0317,  
80.5213

476.6273,  
508.4185, 516.4409

■ 58.2833, 63.0416,  
59.6187

129.3565,  
139.0195, 135.9164

■ 42.2806, 45.8749,  
42.6881

161.9537,  
173.7860, 171.2460

■ 29.5131, 32.1471,  
29.3109

199.6130,  
213.9135, 212.2218

■ 19.6156, 21.4739,  
19.0685

242.6997,  
259.7863, 259.2622

■ 12.2225, 13.4708,  
11.5425

291.5791,  
311.7888, 312.7857

■ 6.9687, 7.7536,  
6.3142

346.6166,

■ 3.4887, 3.9377,

370.3054, 373.2110

2.9652

408.1776,  
435.7205, 440.9566

■ 1.4172, 1.6388,  
1.0769

■ 0.2684, 0.3835,  
0.0000

■ 77.8866, 84.0317,  
80.5213

■ 77.8866, 84.0317,  
80.5213

■ 73.5663, 82.1478,  
64.9230

■ 82.6939, 86.1197,  
98.4924

■ 69.7072, 80.4494,  
51.5930

■ 85.7309, 87.5006,  
106.9785

■ 66.2911, 78.9319,  
40.4271

■ 87.2024, 88.2592,  
107.0474

■ 63.2960, 77.5866,  
31.3105

■ 88.7073, 89.0350,  
107.1178

■ 60.6980, 76.4038,  
24.1184

■ 89.8662, 89.6324,  
107.1721

■ 58.4706, 75.3728,  
18.7117

■ 56.5834, 74.4817,  
14.9333

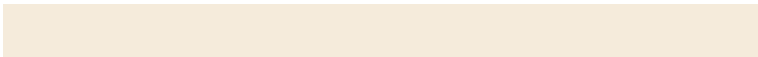
■ 55.0014, 73.7161,  
12.5984

■ 53.6787, 73.0579,  
11.4676

# Harmonies

## Analogous

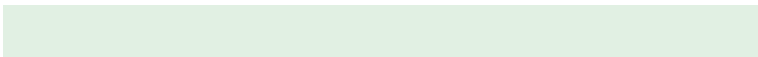
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.1364, 84.0317, 79.3061



77.8866, 84.0317, 80.5213



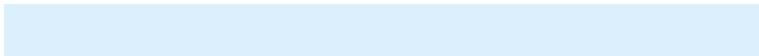
76.1974, 84.0317, 84.6270

# Triad

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



77.8866, 84.0317, 80.5213



77.4336, 84.0317, 102.5997



84.4140, 84.0317, 92.2615

# Complementary

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



77.8866, 84.0317, 80.5213



72.0329, 73.7356, 91.3292

# Split Complementary

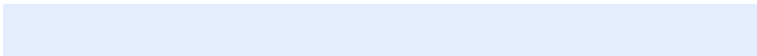
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.6580, 84.0317, 98.7275



77.8866, 84.0317, 80.5213



79.6034, 84.0317, 104.8756

# Square

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



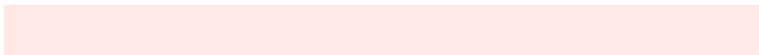
77.8866, 84.0317, 80.5213



75.9394, 84.0317, 97.3434



81.8860, 84.0317, 103.4257



83.9331, 84.0317, 85.8880

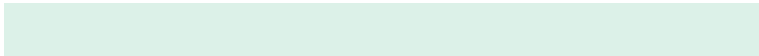


# Rectangle

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



77.8866, 84.0317, 80.5213



75.6012, 84.0317, 88.5582



81.8860, 84.0317, 103.4257



84.2958, 84.0317, 94.4985

# Sweetspot

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



77.8889, 84.0353, 80.5231



93.9089, 99.5053, 104.6172



74.9248, 76.6218, 79.2484



20.1123, 21.3034, 22.4372



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

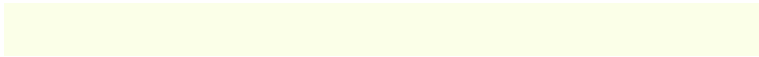


# Same Dimension

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



77.8889, 84.0353, 80.5231



90.0963, 97.8480, 90.5191



75.2021, 82.6502, 80.3974



16.8329, 18.3096, 16.7966



29.8492, 40.7094, 6.2845



2.5542, 3.4232, 0.5261



# Inverse Universe

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



72.0329, 73.7356, 91.3292



81.5478, 82.8123, 106.2941



74.6789, 75.0996, 91.4531



15.1577, 15.3630, 19.8881



9.2194, 3.7582, 45.3674

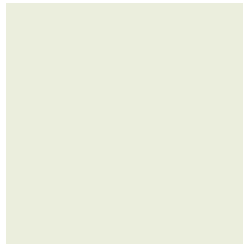


0.8403, 0.3505, 3.7776



# Previews

## White Background



This preview shows how the XYZ color 77.8866, 84.0317, 80.5213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

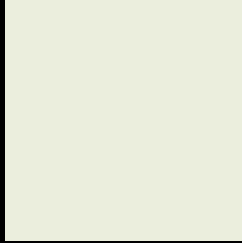
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8866, 84.0317, 80.5213 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

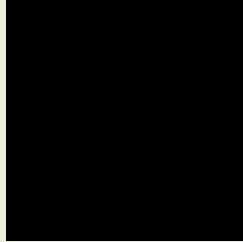
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

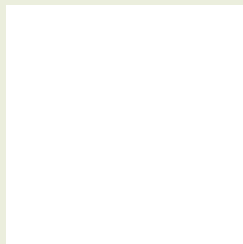
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 77.8866, 84.0317, 80.5213**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.8866, 84.0317, 80.5213.



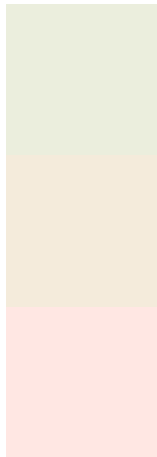
This preview shows how white text looks on a background with the XYZ color 77.8866, 84.0317,



# 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

77.8866, 84.0317, 80.5213

### Protanopia

79.8027, 83.7642, 78.9799

### Deuteranopia

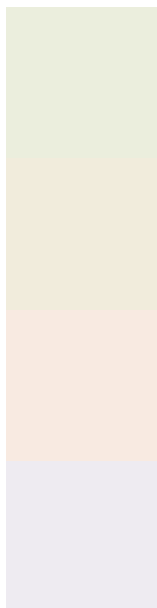
83.6810, 83.9579, 84.4681



## Tritanopia

82.6448, 83.8314, 103.9207

# Trichromacy



## Original Color

77.8866, 84.0317, 80.5213

## Protanomaly

79.1893, 83.8590, 79.7228

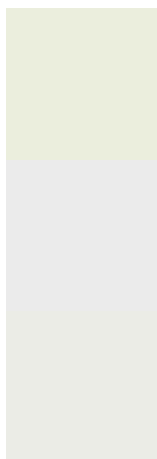
## Deuteranomaly

81.7248, 84.2383, 83.1864

## Tritanomaly

80.8454, 83.9447, 95.1610

# Monochromacy



## Original Color

77.8866, 84.0317, 80.5213

## Achromatopsia

78.9647, 83.0770, 90.4708

## Achromatomaly

78.5393, 83.3662, 86.8147

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8866, 84.0317, 80.5213 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(235, 238, 221) looks like.

```
.text, #text, p{  
    color:rgb(235, 238, 221)  
}
```

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(235, 238, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 238, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8866, 84.0317, 80.5213 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(235, 238, 221) }
```



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

```
.border{ border-color:rgb(235, 238, 221) }
```

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

Here you see how a box with a 4 pixel rgb(235, 238, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 238, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 238, 221);  
box-shadow:4px 4px 4px 4px rgb(235, 238,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8866, 84.0317, 80.5213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 238, 221) }
```

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

```
.background{ background-color: rgb(235,  
238, 221) }
```

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](#).

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