

# Converting Colors

XYZ(77.9051, 81.3417, 86.6664)

Have a look what the booklet for  
XYZ(77.9051, 81.3417, 86.6664)  
contains.

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# **Color**

**XYZ(77.7316, 81.2593,  
86.4506)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECE8E6
RGB	236, 232, 230
RGB Percent	93%, 91%, 90%
CMY	0.0745, 0.0902, 0.0980
CMYK	0.00, 0.02, 0.03, 0.07
HSL	20°, 14%, 91%
HSV	20°, 3%, 93%
XYZ	77.7316, 81.2593, 86.4506
YIQ	232.9680, 3.0260, 0.2260

# Conversions

## Conversions Part 2

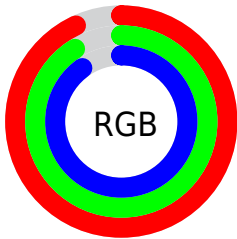
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 233, 230
Decimal	15526118
CIE Lab	92.25, 1.00, 1.44
CIE LCh	92, 1.749, 55.184
Yxy	81.2593, 0.3167, 0.3311
Android (android.graphics.Color)	4293716198 (0xFFECE8E6)
YUV	232.9680, -1.4632, 2.6591
Hunter-Lab	90.1439, -3.8304, 6.2400

# Details

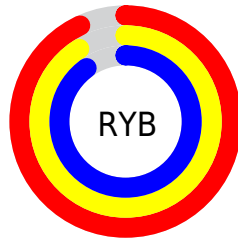
The XYZ color **77.7316, 81.2593, 86.4506** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **77.1962, 81.7235, 91.0634**, and the grayscale version is **77.4391, 81.4720, 88.7230**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.0856, 43.8491, 46.8030** is the 20% darker color. If you saturate the color by 10%, you get **70.4119, 71.5688, 68.7516**, and if you desaturate by 10%, it is **85.9003, 91.9276, 106.6483**.

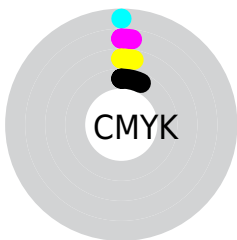
# Distribution



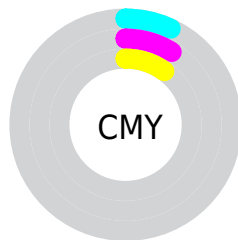
- Red (93%)
- Green (91%)
- Blue (90%)



- Red (93%)
- Yellow (91%)
- Blue (90%)



- Cyan (0%)
- Magenta (2%)
- Yellow (3%)
- Black (7%)



- Cyan (7%)
- Magenta (9%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.7316, 81.2593, 86.4506 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 77.7316, 81.2593, 86.4506 by changing the saturation by 10% instead.



■ 77.7316, 81.2593,  
86.4506

■ 77.7316, 81.2593,  
86.4506

476.1086,  
499.1667, 536.6851

■ 58.1555, 60.7552,  
64.4836

129.1391,  
135.1348, 144.2902

■ 42.1775, 44.0276,  
46.5938

161.7012,  
169.2750, 181.0000

■ 29.4320, 30.6922,  
32.3626

199.3227,  
208.7293, 223.4610

■ 19.5538, 20.3646,  
21.3715

242.3689,  
253.8821, 272.0919

■ 12.1775, 12.6603,  
13.2020

291.2053,  
305.1179, 327.3113

■ 6.9377, 7.1951,  
7.4354

346.1971,

■ 3.4692, 3.5844,

362.8210, 389.5375

3.6533

407.7098,  
427.3758, 459.1893

■ 1.4064, 1.4439,  
1.4371

■ 0.2608, 0.2488,  
0.1704

■ 77.7316, 81.2593,  
86.4506

■ 77.7316, 81.2593,  
86.4506

■ 70.4119, 71.5688,  
68.7516

■ 85.9003, 91.9276,  
106.6483

■ 63.9061, 62.8179,  
53.4482

■ 88.4025, 96.5731,  
108.5889

■ 58.1867, 54.9808,  
40.4381

■ 53.2219, 48.0270,  
29.6092

■ 48.9776, 41.9238,  
20.8402

■ 45.4169, 36.6368,  
13.9977

■ 42.4990, 32.1287,  
8.9323

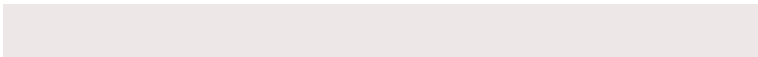
■ 40.1784, 28.3588,  
5.4724

■ 38.4016, 25.2818,  
3.4112

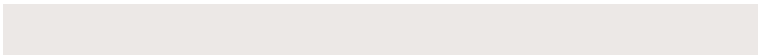
# Harmonies

## Analogous

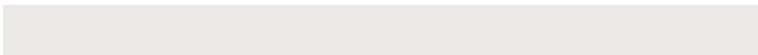
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.0234, 81.2593, 87.4231



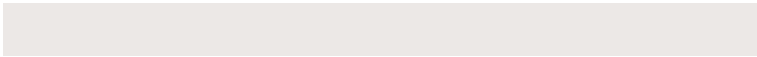
77.7316, 81.2593, 86.4506



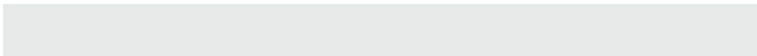
77.3075, 81.2593, 86.0214

# Triad

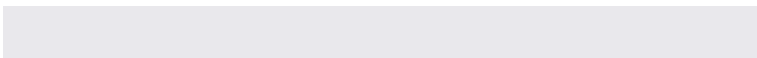
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.7316, 81.2593, 86.4506



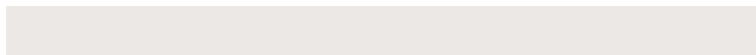
76.3721, 81.2593, 88.2688



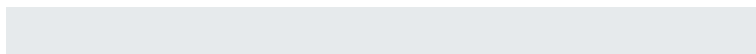
77.6048, 81.2593, 90.7483

# Complementary

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



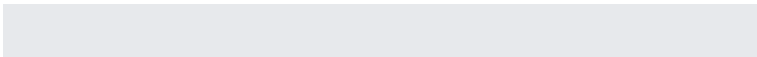
77.7316, 81.2593, 86.4506



77.1962, 81.7235, 91.0634

# Split Complementary

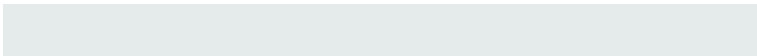
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.1616, 81.2593, 90.9800



77.7316, 81.2593, 86.4506



76.4510, 81.2593, 89.5405

# Square

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



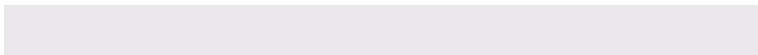
77.7316, 81.2593, 86.4506



76.5235, 81.2593, 87.0646



76.7396, 81.2593, 90.5360

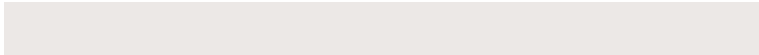


77.9500, 81.2593, 89.9057



# Rectangle

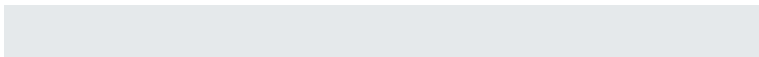
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



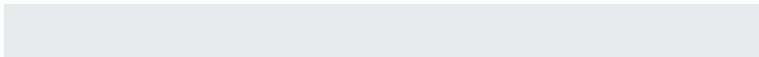
77.7316, 81.2593, 86.4506



77.0072, 81.2593, 86.0980



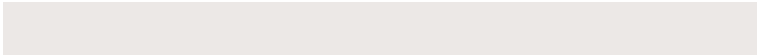
76.7396, 81.2593, 90.5360



77.4623, 81.2593, 90.9005

# Sweetspot

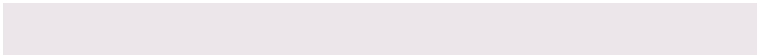
The Sweet Spot groups the original color and five complimentary colors.



77.7339, 81.2628, 86.4524



94.1027, 98.7581, 106.5723



77.7413, 80.3682, 89.2582



20.1519, 21.1514, 22.8354



0.0000, 0.0000, 0.0000

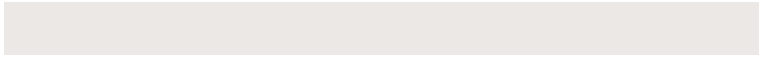


20.3446, 21.4041, 23.3091

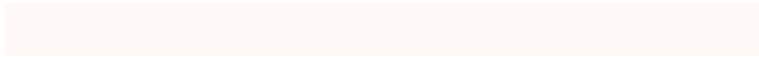


# Same Dimension

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



77.7339, 81.2628, 86.4524



92.2388, 96.3095, 102.0072



78.5844, 82.9638, 86.7359



16.3722, 17.0604, 17.9374



20.7088, 13.1118, 1.4394



1.7118, 1.2009, 0.1416



# Inverse Universe

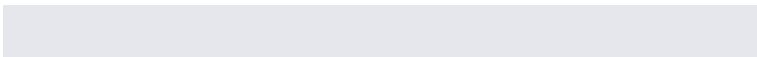
The Inverse Universe completely reimagines the original color for something new.



77.1962, 81.7235, 91.0634



91.4815, 96.9582, 108.5010



76.3505, 80.0322, 90.7815



16.2029, 17.2054, 19.3892



15.1311, 16.9092, 46.2093

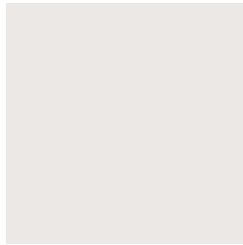


1.2760, 1.5035, 3.6578



# Previews

## White Background



This preview shows how the XYZ color 77.7316, 81.2593, 86.4506 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

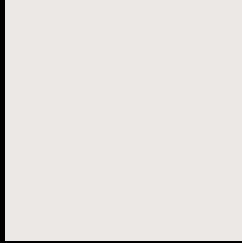
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.7316, 81.2593, 86.4506 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

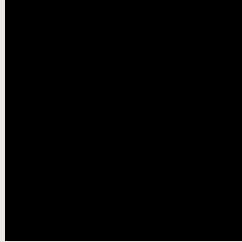
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

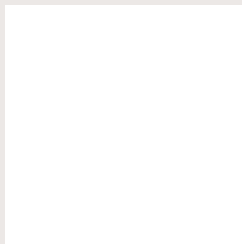
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 77.7316, 81.2593, 86.4506**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.7316, 81.2593, 86.4506.



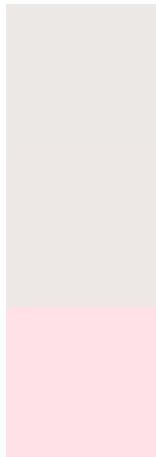
This preview shows how white text looks on a background with the XYZ color 77.7316, 81.2593,

86.4506.

# 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

77.7316, 81.2593, 86.4506

### Protanopia

78.0646, 81.4309, 86.4662

### Deuteranopia

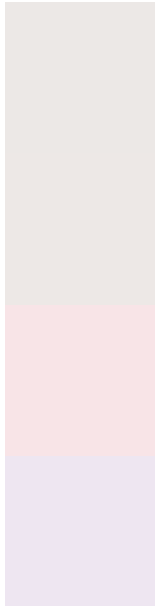
82.5890, 80.8799, 86.8598



## Tritanopia

80.4044, 81.1047, 99.4127

# Trichromacy



## Original Color

77.7316, 81.2593, 86.4506

## Protanomaly

78.0646, 81.4309, 86.4662

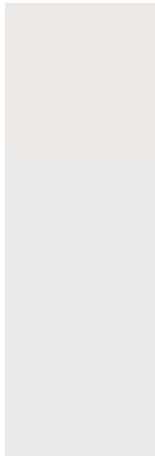
## Deuteranomaly

80.8786, 81.2128, 87.0142

## Tritanomaly

79.4339, 81.1216, 94.6905

# Monochromacy



## Original Color

77.7316, 81.2593, 86.4506

## Achromatopsia

77.4512, 81.4847, 88.7368

## Achromatomaly

77.6361, 81.5964, 88.0018

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.7316, 81.2593, 86.4506 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(236, 232, 230) looks like.

```
.text, #text, p{  
    color:rgb(236, 232, 230)  
}
```

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(236, 232, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 232, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 77.7316, 81.2593, 86.4506 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(236, 232, 230) }
```



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

```
.border{ border-color:rgb(236, 232, 230) }
```

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

Here you see how a box with a 4 pixel rgb(236, 232, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 232, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 232, 230);  
box-shadow:4px 4px 4px 4px rgb(236, 232,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.7316, 81.2593, 86.4506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 232, 230) }
```

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

```
.background{ background-color: rgb(236,  
232, 230) }
```

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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