

# Converting Colors

XYZ(77.8428, 82.4936, 80.3064)

Have a look what the booklet for  
XYZ(77.8428, 82.4936, 80.3064)  
contains.

<b>XYZ(77.7339, 82.2432, 80.1841)</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(77.7339, 82.2432,  
80.1841)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEEADD
RGB	238, 234, 221
RGB Percent	93%, 92%, 87%
CMY	0.0667, 0.0823, 0.1333
CMYK	0.00, 0.02, 0.07, 0.07
HSL	46°, 33%, 90%
HSV	46°, 7%, 93%
XYZ	77.7339, 82.2432, 80.1841
YIQ	233.7140, 6.5570, -3.1950

# Conversions

## Conversions Part 2

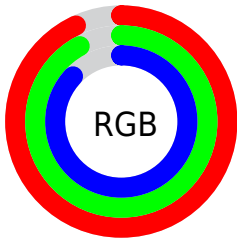
Format	Color
R <sub>Y</sub> B	226, 238, 221
Decimal	15657693
CIE Lab	92.68, -0.87, 6.77
CIE LCh	93, 6.830, 97.337
Yxy	82.2432, 0.3237, 0.3424
Android (android.graphics.Color)	4293847773 (0xFFEEEADD)
YUV	233.7140, -6.2680, 3.7588
Hunter-Lab	90.6880, -5.7015, 11.0589

# Details

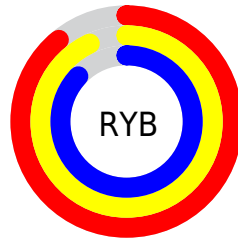
The XYZ color **77.7339, 82.2432, 80.1841** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **72.1767, 75.3946, 91.6385**, and the grayscale version is **78.0348, 82.0987, 89.4055**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.0947, 44.5390, 42.4547** is the 20% darker color. If you saturate the color by 10%, you get **73.2183, 77.9313, 64.1277**, and if you desaturate by 10%, it is **82.7540, 86.8427, 98.6284**.

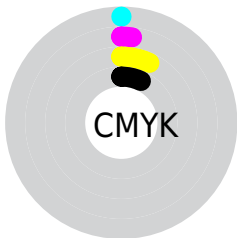
# Distribution



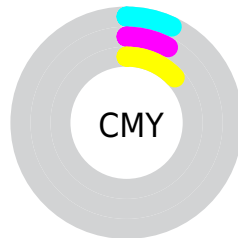
- Red (93%)
- Green (92%)
- Blue (87%)



- Red (89%)
- Yellow (93%)
- Blue (87%)



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



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.7339, 82.2432, 80.1841 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 77.7339, 82.2432, 80.1841 by changing the saturation by 10% instead.



■ 77.7339, 82.2432,  
80.1841

■ 77.7339, 82.2432,  
80.1841

476.1163,  
502.4608, 515.2762

■ 58.1574, 61.5660,  
59.3428

129.1423,  
136.5150, 135.4383

■ 42.1790, 44.6821,  
42.4673

161.7049,  
170.8784, 170.6882

■ 29.4332, 31.2071,  
29.1391

199.3270,  
210.5727, 211.5781

■ 19.5547, 20.7566,  
18.9396

242.3739,  
255.9822, 258.5266

■ 12.1781, 12.9462,  
11.4503

291.2109,  
307.4914, 311.9521

■ 6.9382, 7.3915,  
6.2526

346.2034,

■ 3.4695, 3.7081,

365.4846, 372.2731

2.9280

407.7167,  
430.3463, 439.9083

■ 1.4066, 1.5117,  
1.0580

■ 0.2609, 0.2969,  
0.0000

■ 77.7339, 82.2432,  
80.1841

■ 77.7339, 82.2432,  
80.1841

■ 73.2183, 77.9313,  
64.1277

■ 82.7540, 86.8427,  
98.6284

■ 69.1810, 73.8878,  
50.3547

■ 86.0216, 90.8197,  
107.6039

■ 65.6037, 70.1073,  
38.7605

■ 87.7415, 94.2596,  
108.1772

■ 62.4642, 66.5801,  
29.2305

■ 89.0704, 96.9174,  
108.6202

■ 59.7383, 63.2959,  
21.6394

■ 57.3991, 60.2431,  
15.8483

■ 55.4163, 57.4087,  
11.6998

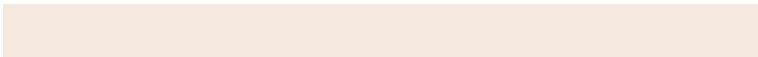
■ 53.7542, 54.7778,  
9.0089

■ 52.3670, 52.3311,  
7.5362

# Harmonies

## Analogous

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



79.4945, 82.2432, 80.8137



77.7339, 82.2432, 80.1841



76.1144, 82.2432, 81.9870

# Triad

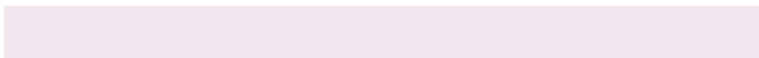
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.7339, 82.2432, 80.1841



75.4827, 82.2432, 95.6198



81.3673, 82.2432, 93.3750

# Complementary

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



77.7339, 82.2432, 80.1841



72.1767, 75.3946, 91.6385

# 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.



80.2617, 82.2432, 97.5620



77.7339, 82.2432, 80.1841



76.8597, 82.2432, 98.8919

# Square

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



77.7339, 82.2432, 80.1841



74.8275, 82.2432, 90.8051



78.6071, 82.2432, 99.6158



81.6100, 82.2432, 88.3043

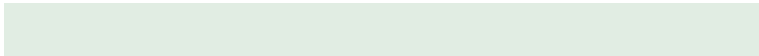


# Rectangle

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



77.7339, 82.2432, 80.1841



75.3266, 82.2432, 84.3675



78.6071, 82.2432, 99.6158



81.0835, 82.2432, 94.9381

# Sweetspot

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



77.7362, 82.2468, 80.1859



93.8584, 98.9134, 104.5056



74.7422, 75.3412, 82.0172



20.1021, 21.1830, 22.4145



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.



77.7362, 82.2468, 80.1859



89.8758, 95.2154, 90.0226



77.4765, 83.8209, 80.5034



16.7897, 17.7924, 16.6991



29.1147, 29.0274, 4.0683



2.4972, 2.5651, 0.3635



# Inverse Universe

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



72.1767, 75.3946, 91.6385



81.7580, 85.2102, 106.7459



72.4196, 73.9350, 91.3440



15.1988, 15.8317, 19.9764



9.4794, 5.1830, 45.6287

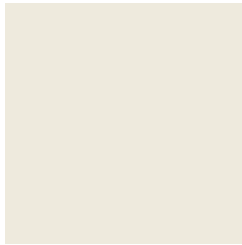


0.8626, 0.5791, 3.8205



# Previews

## White Background



This preview shows how the XYZ color 77.7339, 82.2432, 80.1841 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

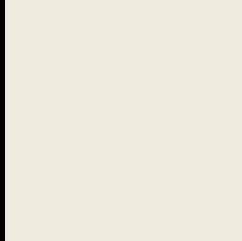
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.7339, 82.2432, 80.1841 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

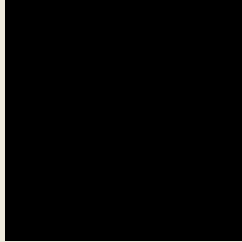
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

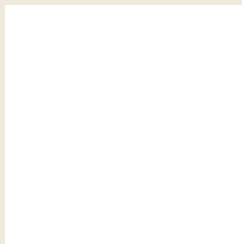
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 77.7339, 82.2432, 80.1841**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.7339, 82.2432, 80.1841.



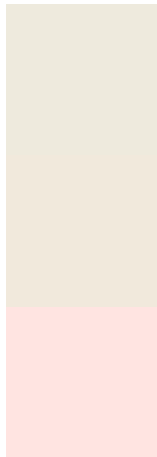
This preview shows how white text looks on a background with the XYZ color 77.7339, 82.2432,



# 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

77.7339, 82.2432, 80.1841

### Protanopia

78.3328, 82.1459, 79.4373

### Deuteranopia

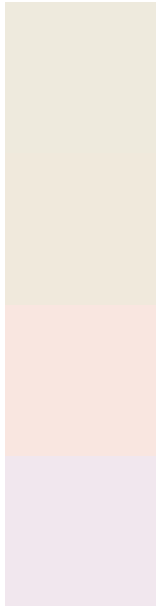
82.5740, 82.1830, 82.7450



## Tritanopia

81.8580, 82.2482, 100.3680

# Trichromacy



## Original Color

77.7339, 82.2432, 80.1841

## Protanomaly

77.9924, 81.9704, 79.4214

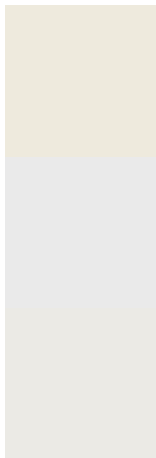
## Deuteranomaly

80.8183, 82.1152, 82.1112

## Tritanomaly

80.2842, 82.0256, 92.4900

# Monochromacy



## Original Color

77.7339, 82.2432, 80.1841

## Achromatopsia

78.2058, 82.2786, 89.6014

## Achromatomaly

77.8266, 82.1649, 85.8863

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.7339, 82.2432, 80.1841 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(238, 234, 221) looks like.

```
.text, #text, p{  
    color:rgb(238, 234, 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(238, 234, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 234, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 77.7339, 82.2432, 80.1841 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(238, 234, 221) }
```



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

```
.border{ border-color:rgb(238, 234, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 234, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 234, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 234, 221);  
box-shadow:4px 4px 4px 4px rgb(238, 234,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.7339, 82.2432, 80.1841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 234, 221) }
```

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

```
.background{ background-color: rgb(238,  
234, 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](#).

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