

# Converting Colors

XYZ(69.2458, 80.0805, 33.6375)

Have a look what the booklet for  
XYZ(69.2458, 80.0805, 33.6375)  
contains.

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# Color

**XYZ(69.3741, 80.2388,  
33.6610)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDED84
RGB	237, 237, 132
RGB Percent	93%, 93%, 52%
CMY	0.0706, 0.0706, 0.4823
CMYK	0.00, 0.00, 0.44, 0.07
HSL	60°, 74%, 72%
HSV	60°, 44%, 93%
XYZ	69.3741, 80.2388, 33.6610
YIQ	225.0300, 33.7050, -32.6550

# Conversions

## Conversions Part 2

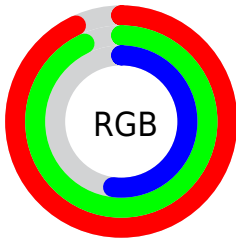
Format	Color
<a href="#">RYB</a>	<a href="#">132, 237, 132</a>
Decimal	<a href="#">15592836</a>
CIELab	<a href="#">91.79, -14.44, 50.61</a>
CIELCh	<a href="#">92, 52.633, 105.920</a>
Yxy	<a href="#">80.2388, 0.3785, 0.4378</a>
Android (android.graphics.Color)	<a href="#">4293782916 (0xFFEDED84)</a>
YUV	<a href="#">225.0300, -45.8638, 10.4977</a>
Hunter-Lab	<a href="#">89.5761, -18.5151, 40.4232</a>

# Details

The XYZ color **69.3741, 80.2388, 33.6610** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **33.0558, 27.5244, 83.6960**, and the grayscale version is **71.8938, 75.6378, 82.3696**.

A 20% lighter version of the original color is **85.9696, 96.3679, 61.0835**, and **36.5256, 43.1960, 13.8097** is the 20% darker color. If you saturate the color by 10%, you get **67.9334, 79.6654, 26.0683**, and if you desaturate by 10%, it is **71.1871, 80.9670, 43.1972**.

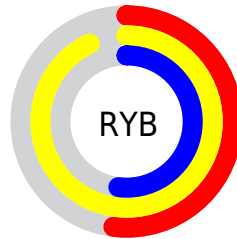
# Distribution



Red (93%)

Green (93%)

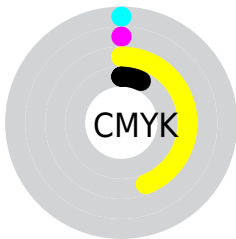
Blue (52%)



Red (52%)

Yellow (93%)

Blue (52%)

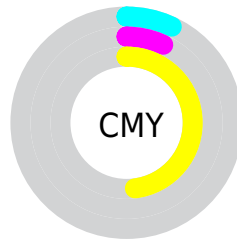


Cyan (0%)

Magenta (0%)

Yellow (44%)

Black (7%)



Cyan (7%)

Magenta (7%)

Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 69.3741, 80.2388, 33.6610 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 69.3741, 80.2388, 33.6610 by changing the saturation by 10% instead.



69.3741, 80.2388,  
33.6610

69.3741, 80.2388,  
33.6610

447.6501,  
495.7372, 333.3407

51.2942, 59.9149,  
22.3580

117.3469,  
133.7014, 66.5340

36.6648, 43.3500,  
13.9194

147.9705,  
167.6089, 88.9411

25.1205, 30.1599,  
7.9265

183.5060,  
206.8130, 115.8867

16.2961, 19.9600,  
3.9609

224.3188,  
251.6982, 147.7893

9.8261, 12.3659,  
1.6039

270.7743,  
302.6488, 185.0675

5.3452, 6.9934,  
0.2936

323.2377,

2.4880, 3.4580,

360.0493, 228.1398

0.0000

382.0745,  
424.2840, 277.4246

■ 0.8892, 1.3752,  
0.0000

■ 0.0000, 0.1984,  
0.0000

■ 69.3741, 80.2388,  
33.6610

■ 69.3741, 80.2388,  
33.6610

■ 67.9334, 79.6654,  
26.0683

■ 71.1871, 80.9670,  
43.1972

■ 66.8340, 79.2255,  
20.2811


■ 73.3896, 81.8480,  
54.7926

■ 66.0492, 78.9116,  
16.1512


■ 76.0044, 82.8940,  
68.5596

■ 65.5462, 78.7103,  
13.5048


■ 79.0511, 84.1127,  
84.6012

 65.2846, 78.6056,  
12.1294


 82.5481, 85.5116,  
103.0136

 65.2084, 78.5751,  
11.7297

 83.2638, 85.7979,  
106.7799

 83.2643, 85.7981,  
106.7799

 83.2648, 85.7984,  
106.7800

 83.2652, 85.7986,  
106.7800

# Harmonies

## Analogous

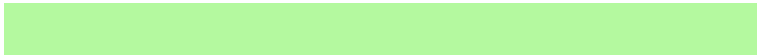
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



82.7453, 80.2388, 33.3355



69.3741, 80.2388, 33.6610



59.1200, 80.2388, 45.2342

# Triad

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



69.3741, 80.2388, 33.6610



59.6178, 80.2388, 152.2726



104.2674, 80.2388, 106.6973

# Complementary

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



69.3741, 80.2388, 33.6610



33.0558, 27.5244, 83.6960

# 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.



96.4395, 80.2388, 149.8453



69.3741, 80.2388, 33.6610



70.1314, 80.2388, 180.9519

# Square

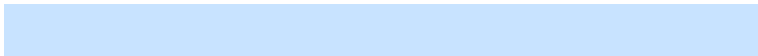
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



69.3741, 80.2388, 33.6610



53.9571, 80.2388, 109.3488



83.5968, 80.2388, 179.9516



104.0023, 80.2388, 68.5471

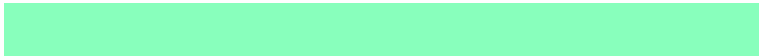


# Rectangle

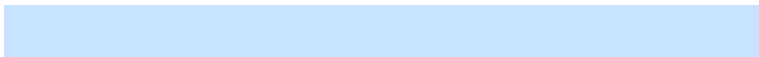
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69.3741, 80.2388, 33.6610



54.9649, 80.2388, 60.4452



83.5968, 80.2388, 179.9516



102.4587, 80.2388, 121.2868

# Sweetspot

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



69.3760, 80.2425, 33.6627



90.1640, 98.0455, 83.1744



47.3438, 36.1749, 26.3180



19.1401, 20.9223, 16.9671



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.



69.3760, 80.2425, 33.6627



80.3781, 94.1309, 31.6543



54.3393, 72.4907, 32.9590



16.3519, 17.6270, 16.0592



35.5993, 42.8966, 6.4036



2.7954, 3.3684, 0.5028



# Inverse Universe

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



33.0558, 27.5244, 83.6960



32.4745, 24.5998, 97.6444



43.4269, 32.8709, 84.1813



14.2314, 14.5490, 18.9804



8.3458, 3.3383, 43.9475

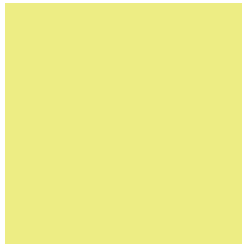


0.6554, 0.2622, 3.4509



# Previews

## White Background



This preview shows how the XYZ color 69.3741, 80.2388, 33.6610 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

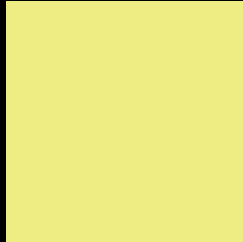
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 69.3741, 80.2388, 33.6610 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 69.3741, 80.2388, 33.6610**

## **Background**



This preview shows how black text looks on a background with the XYZ color 69.3741, 80.2388, 33.6610.



This preview shows how white text looks on a background with the XYZ color 69.3741, 80.2388,



# 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

69.3741, 80.2388, 33.6610

### Protanopia

73.4782, 79.8344, 32.6559

### Deuteranopia

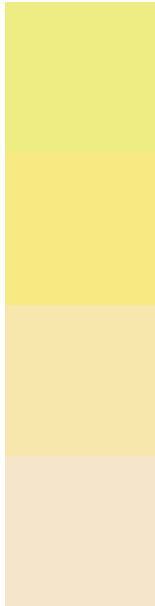
78.6729, 80.1837, 63.5550



## Tritanopia

81.7496, 79.8619, 95.1106

# Trichromacy



## Original Color

69.3741, 80.2388, 33.6610

## Protanomaly

71.9470, 79.8730, 33.0977

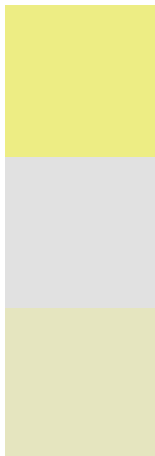
## Deuteranomaly

74.8301, 80.1254, 51.0569

## Tritanomaly

76.3362, 79.7154, 67.2404

# Monochromacy



## Original Color

69.3741, 80.2388, 33.6610

## Achromatopsia

71.5672, 75.2942, 81.9954

## Achromatomaly

69.7364, 76.4582, 60.3726

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 69.3741, 80.2388, 33.6610 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(237, 237, 132)` looks like.

```
.text, #text, p{  
    color:rgb(237, 237, 132)  
}
```

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(237, 237, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 237, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 69.3741, 80.2388, 33.6610 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(237, 237, 132) }
```



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

```
.border{ border-color:rgb(237, 237, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 237, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 237, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 237, 132);  
box-shadow:4px 4px 4px 4px rgb(237, 237,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 69.3741, 80.2388, 33.6610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 237, 132) }
```

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

```
.background{ background-color: rgb(237,  
237, 132) }
```

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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