

# Converting Colors

XYZ(70.7259, 83.2347, 33.7453)

Have a look what the booklet for  
XYZ(70.7259, 83.2347, 33.7453)  
contains.

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# Color

**XYZ(70.7739, 83.1475,  
33.7916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDF283
RGB	237, 242, 131
RGB Percent	93%, 95%, 51%
CMY	0.0706, 0.0510, 0.4863
CMYK	0.02, 0.00, 0.46, 0.05
HSL	63°, 81%, 73%
HSV	63°, 46%, 95%
XYZ	70.7739, 83.1475, 33.7916
YIQ	227.8510, 32.6510, -35.5810

# Conversions

## Conversions Part 2

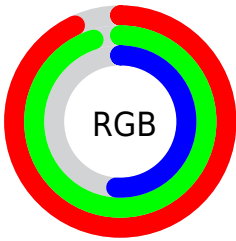
Format	Color
<a href="#">RYB</a>	<a href="#">131, 242, 136</a>
Decimal	<a href="#">15594115</a>
CIELab	<a href="#">93.08, -16.98, 52.66</a>
CIElCh	<a href="#">93, 55.328, 107.869</a>
Yxy	<a href="#">83.1475, 0.3770, 0.4430</a>
Android (android.graphics.Color)	<a href="#">4293784195 (0xFFEDF283)</a>
YUV	<a href="#">227.8510, -47.7475, 8.0237</a>
Hunter-Lab	<a href="#">91.1853, -21.0305, 41.8579</a>

# Details

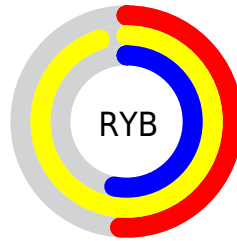
The XYZ color **70.7739, 83.1475, 33.7916** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **34.2996, 27.8797, 87.5829**, and the grayscale version is **73.9571, 77.8086, 84.7336**.

A 20% lighter version of the original color is **85.8629, 96.3252, 60.5215**, and **37.5245, 45.2516, 13.9644** is the 20% darker color. If you saturate the color by 10%, you get **68.9591, 82.3826, 26.1224**, and if you desaturate by 10%, it is **72.9781, 84.0744, 43.4817**.

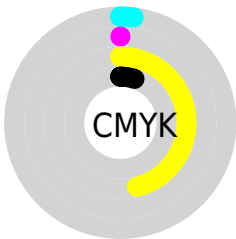
# Distribution



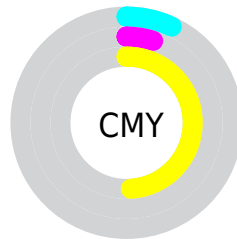
- Red (93%)
- Green (95%)
- Blue (51%)



- Red (51%)
- Yellow (95%)
- Blue (53%)



- Cyan (2%)
- Magenta (0%)
- Yellow (46%)
- Black (5%)




- Cyan (7%)
- Magenta (5%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.7739, 83.1475, 33.7916 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 70.7739, 83.1475, 33.7916 by changing the saturation by 10% instead.





 70.7739, 83.1475,  
33.7916

 70.7739, 83.1475,  
33.7916


452.4868,  
505.4780, 333.9425


 52.4396, 62.3118,  
22.4575


 119.3320,  
137.7820, 66.7396

 37.5813, 45.2847,  
13.9919


 150.2865,  
172.3497, 89.1907

 25.8336, 31.6817,  
7.9764

 186.1784,  
212.2635, 116.1844

 16.8312, 21.1185,  
3.9923

227.3731,  
257.9078, 148.1393

 10.2088, 13.2107,  
1.6211

274.2359,  
309.6670, 185.4741

 5.6009, 7.5738,  
0.3058

327.1322,

 2.6423, 3.8235,

367.9255, 228.6072

0.0000

386.4274,  
433.0677, 277.9572

■ 0.9676, 1.5753,  
0.0000

■ 0.0000, 0.3409,  
0.0000

■ 70.7739, 83.1475,  
33.7916

■ 70.7739, 83.1475,  
33.7916

■ 68.9591, 82.3826,  
26.1224

■ 72.9781, 84.0744,  
43.4817

■ 67.5004, 81.7574,  
20.3263


■ 75.5900, 85.1617,  
55.3164


■ 66.3695, 81.2636,  
16.2441


■ 78.6342, 86.4221,  
69.4153

■ 65.5304, 80.8867,  
13.6875


■ 82.1313, 87.8639,  
85.8880


 64.9390, 80.6092,  
12.4236


 86.1008, 89.4950,  
104.8369

 64.7384, 80.5121,  
12.1283

 86.9559, 89.8805,  
107.3734

 87.3349, 90.0759,  
107.3911

 87.7161, 90.2724,  
107.4089

 88.0996, 90.4701,  
107.4269

# Harmonies

## Analogous

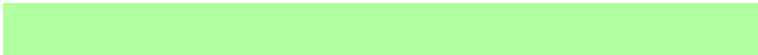
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.0385, 83.1475, 32.7298



70.7739, 83.1475, 33.7916



60.0917, 83.1475, 46.8150

# Triad

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



70.7739, 83.1475, 33.7916



61.7519, 83.1475, 163.6584



109.5642, 83.1475, 108.3844

# Complementary

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



70.7739, 83.1475, 33.7916



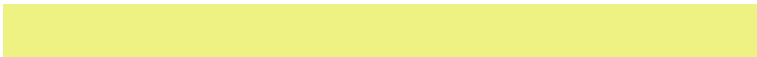
34.2996, 27.8797, 87.5829

# 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.



101.5780, 83.1475, 155.4083



70.7739, 83.1475, 33.7916



73.3099, 83.1475, 193.2739

# Square

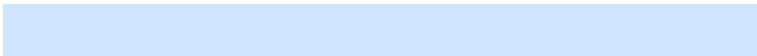
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



70.7739, 83.1475, 33.7916



55.3385, 83.1475, 117.3304



87.9027, 83.1475, 189.8620



108.6679, 83.1475, 68.1629



# Rectangle

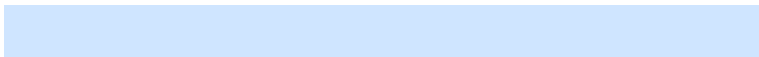
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.7739, 83.1475, 33.7916



55.9000, 83.1475, 63.6450



87.9027, 83.1475, 189.8620



107.7928, 83.1475, 124.0942

# Sweetspot

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



70.7759, 83.1513, 33.7933



89.2358, 97.6062, 81.3617



49.3397, 37.7624, 26.1622



18.9280, 20.8206, 16.6092



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.



70.7759, 83.1513, 33.7933



77.7910, 92.8320, 29.9627



55.3330, 75.1902, 33.0706



17.0483, 18.4206, 16.8067



34.8084, 43.2659, 6.5166



2.9174, 3.6105, 0.5431



# Inverse Universe

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



34.2996, 27.8797, 87.5829



32.0480, 23.4950, 97.4536



45.4311, 33.6182, 88.1039



14.9632, 15.2627, 19.8790



8.7135, 3.4974, 45.3437

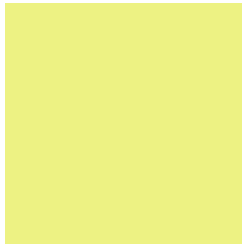


0.7479, 0.3028, 3.7732



# Previews

## White Background



This preview shows how the XYZ color 70.7739, 83.1475, 33.7916 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

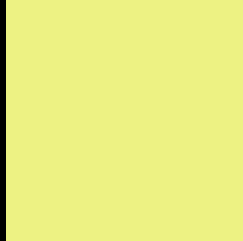
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.7739, 83.1475, 33.7916 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 70.7739, 83.1475, 33.7916**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.7739, 83.1475, 33.7916.



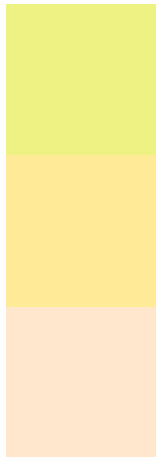
This preview shows how white text looks on a background with the XYZ color 70.7739, 83.1475,



# 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

70.7739, 83.1475, 33.7916

### Protanopia

76.5342, 82.9110, 41.2478

### Deuteranopia

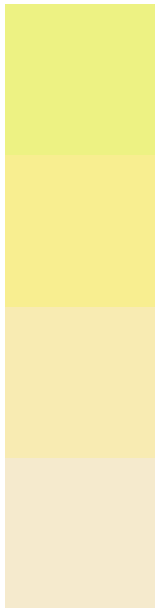
80.8354, 82.8196, 69.4829



## Tritanopia

84.2322, 83.0780, 99.5918

# Trichromacy



## Original Color

70.7739, 83.1475, 33.7916

## Protanomaly

74.3200, 83.1191, 38.5121

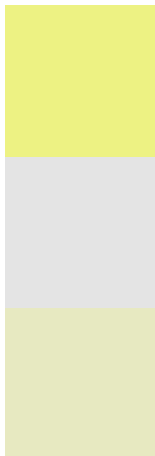
## Deuteranomaly

76.4556, 82.5875, 54.0308

## Tritanomaly

78.0985, 82.6659, 69.5975

# Monochromacy



## Original Color

70.7739, 83.1475, 33.7916

## Achromatopsia

73.7419, 77.5822, 84.4870

## Achromatomaly

71.7195, 79.1170, 61.9432

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.7739, 83.1475, 33.7916 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, 242, 131)` looks like.

```
.text, #text, p{  
    color:rgb(237, 242, 131)  
}
```

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, 242, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 242, 131) }
```

## Border

The CSS property to change the border of an element to XYZ 70.7739, 83.1475, 33.7916 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, 242, 131) }
```



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

```
.border{ border-color:rgb(237, 242, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 242, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 242, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 242, 131);  
box-shadow:4px 4px 4px 4px rgb(237, 242,  
131) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.7739, 83.1475, 33.7916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 242, 131) }
```

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

```
.background{ background-color: rgb(237,  
242, 131) }
```

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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