

# Converting Colors

XYZ(70.7487, 82.6992, 28.8277)

Have a look what the booklet for  
XYZ(70.7487, 82.6992, 28.8277)  
contains.

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# Color

**XYZ(70.8833, 82.8723,  
28.7830)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F1F174
RGB	241, 241, 116
RGB Percent	95%, 95%, 45%
CMY	0.0549, 0.0549, 0.5451
CMYK	0.00, 0.00, 0.52, 0.05
HSL	60°, 82%, 70%
HSV	60°, 52%, 95%
XYZ	70.8833, 82.8723, 28.7830
YIQ	226.7500, 40.1250, -38.8750

# Conversions

## Conversions Part 2

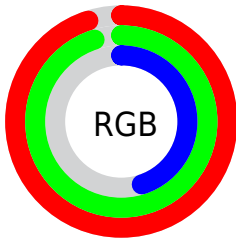
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 241, 116
Decimal	15855988
CIE <sub>Lab</sub>	92.96, -16.22, 59.50
CIE <sub>LCh</sub>	93, 61.674, 105.252
Yxy	82.8723, 0.3883, 0.4540
Android (android.graphics.Color)	4294046068 (0xFFFF1F174)
YUV	226.7500, -54.5997, 12.4973
Hunter-Lab	91.0342, -20.3218, 44.9778

# Details

The XYZ color **70.8833, 82.8723, 28.7830** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **29.3278, 22.5566, 86.0322**, and the grayscale version is **73.1976, 77.0096, 83.8634**.

A 20% lighter version of the original color is **84.3507, 95.7203, 52.5582**, and **37.7469, 45.1130, 11.2756** is the 20% darker color. If you saturate the color by 10%, you get **69.6598, 82.3859, 22.3336**, and if you desaturate by 10%, it is **72.4744, 83.5118, 37.1508**.

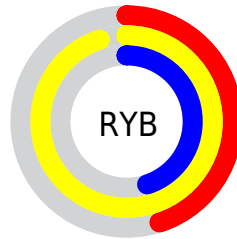
# Distribution



Red (95%)

Green (95%)

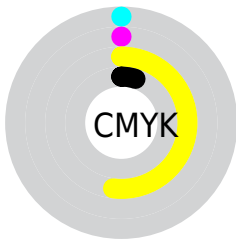
Blue (45%)



Red (45%)

Yellow (95%)

Blue (45%)

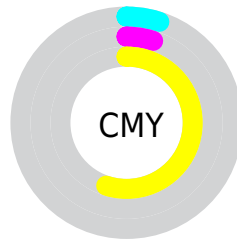


Cyan (0%)

Magenta (0%)

Yellow (52%)

Black (5%)



Cyan (5%)

Magenta (5%)

Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.8833, 82.8723, 28.7830 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 70.8833, 82.8723, 28.7830 by changing the saturation by 10% instead.




 70.8833, 82.8723,  
28.7830

 70.8833, 82.8723,  
28.7830


452.8636,  
504.5608, 310.2185


 52.5292, 62.0848,  
18.6726


 119.4870,  
137.3966, 58.7702

 37.6530, 45.1012,  
11.2595


 150.4672,  
171.9022, 79.4840

 25.8895, 31.5372,  
6.1253


 186.3868,  
211.7493, 104.5694

 16.8732, 21.0082,  
2.8514

227.6112,  
257.3222, 134.4449

 10.2389, 13.1300,  
1.0193

274.5057,  
309.0055, 169.5290

 5.6211, 7.5181,  
0.0000

327.4357,

 2.6545, 3.7882,

367.1834, 210.2403

0.0000

386.7666,  
432.2404, 256.9973

■ 0.9738, 1.5558,  
0.0000

■ 0.0000, 0.3275,  
0.0000

■ 70.8833, 82.8723,  
28.7830

■ 70.8833, 82.8723,  
28.7830

■ 69.6598, 82.3859,  
22.3336

■ 72.4744, 83.5118,  
37.1508

■ 68.7692, 82.0296,  
17.6460


■ 74.4529, 84.3033,  
47.5671


■ 68.1804, 81.7940,  
14.5479


■ 76.8441, 85.2598,  
60.1564


■ 67.8536, 81.6633,  
12.8297


■ 79.6694, 86.3900,  
75.0322


 67.7305, 81.6140,  
12.1833

 82.9490, 87.7019,  
92.2997

 85.7854, 88.8365,  
107.2335

 85.7858, 88.8367,  
107.2335

 85.7862, 88.8369,  
107.2336

 85.7867, 88.8371,  
107.2336

# Harmonies

## Analogous

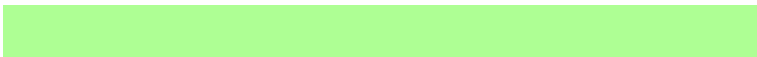
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



86.9343, 82.8723, 28.6887



70.8833, 82.8723, 28.7830



58.7206, 82.8723, 41.0153

# Triad

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



70.8833, 82.8723, 28.7830



58.8793, 82.8723, 169.2106



112.7486, 82.8723, 114.8014

# Complementary

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



70.8833, 82.8723, 28.7830



29.3278, 22.5566, 86.0322

# 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.



102.9255, 82.8723, 168.3722



70.8833, 82.8723, 28.7830



71.1291, 82.8723, 206.3497

# Square

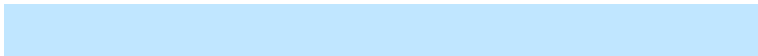
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



70.8833, 82.8723, 28.7830



52.4622, 82.8723, 115.6894



87.2160, 82.8723, 205.9990



112.6590, 82.8723, 68.8163

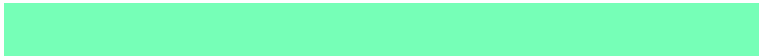


# Rectangle

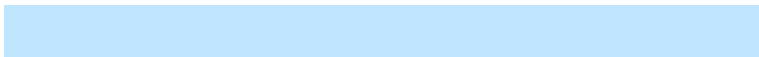
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.8833, 82.8723, 28.7830



53.8137, 82.8723, 57.9086



87.2160, 82.8723, 205.9990



110.4432, 82.8723, 132.7855

# Sweetspot

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



70.8853, 82.8761, 28.7847



89.1624, 97.6448, 77.9003



45.6762, 32.4545, 20.3810



18.9430, 20.8434, 15.9292



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.



70.8853, 82.8761, 28.7847



79.1499, 93.6396, 25.1874



53.0860, 73.7002, 27.9517



17.1229, 18.4590, 16.8102



36.7266, 44.2548, 6.6063



3.0553, 3.6816, 0.5496



# Inverse Universe

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



29.3278, 22.5566, 86.0322



27.2355, 18.2873, 96.7021



40.6001, 28.3677, 86.5597



14.8974, 15.2288, 19.8759



8.6100, 3.4440, 45.3388

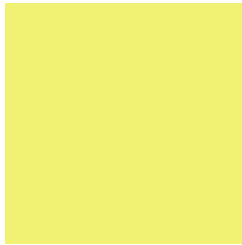


0.7163, 0.2865, 3.7718



# Previews

## White Background



This preview shows how the XYZ color 70.8833, 82.8723, 28.7830 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

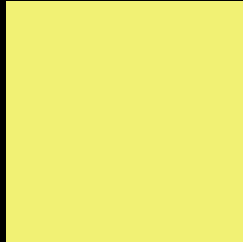
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.8833, 82.8723, 28.7830 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 70.8833, 82.8723, 28.7830**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.8833, 82.8723, 28.7830.



This preview shows how white text looks on a background with the XYZ color 70.8833, 82.8723,

28.7830.

# 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

70.8833, 82.8723, 28.7830

### Protanopia

76.2148, 82.7832, 39.5656

### Deuteranopia

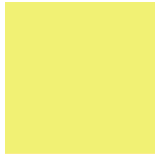
80.5954, 82.7236, 68.2193



## Tritanopia

84.8236, 82.6016, 97.8592

# Trichromacy



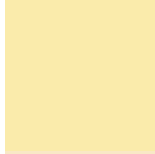
## Original Color

70.8833, 82.8723, 28.7830



## Protanomaly

74.1525, 82.6699, 35.3412



## Deuteranomaly

76.4834, 82.6809, 50.4560



## Tritanomaly

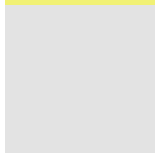
78.1166, 81.9302, 65.1230

# Monochromacy



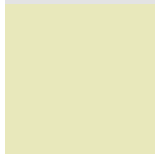
## Original Color

70.8833, 82.8723, 28.7830



## Achromatopsia

73.0128, 76.8151, 83.6517



## Achromatomaly

71.1050, 78.4569, 58.4098

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.8833, 82.8723, 28.7830 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(241, 241, 116)` looks like.

```
.text, #text, p{  
    color:rgb(241, 241, 116)  
}
```

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(241, 241, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 241, 116) }
```

## Border

The CSS property to change the border of an element to XYZ 70.8833, 82.8723, 28.7830 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(241, 241, 116) }
```



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

```
.border{ border-color:rgb(241, 241, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(241, 241, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 241, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 241, 116);  
box-shadow:4px 4px 4px 4px rgb(241, 241,  
116) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.8833, 82.8723, 28.7830 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 241, 116) }
```

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

```
.background{ background-color: rgb(241,  
241, 116) }
```

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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