

# Converting Colors

XYZ(108.3507, 100.0000,  
37.8177)

Have a look what the booklet for  
XYZ(108.3507, 100.0000, 37.8177)  
contains.

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# **Color**

**XYZ(75.8229, 83.0859,  
36.0856)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEC8A
RGB	255, 236, 138
RGB Percent	100%, 93%, 54%
CMY	0.0000, 0.0745, 0.4588
CMYK	0.00, 0.07, 0.46, 0.00
HSL	50°, 100%, 77%
HSV	50°, 46%, 100%
XYZ	75.8229, 83.0859, 36.0856
YIQ	230.5090, 42.7820, -26.4500

# Conversions

## Conversions Part 2

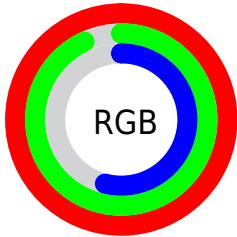
Format	Color
<a href="#">RYB</a>	<a href="#">161, 255, 138</a>
Decimal	<a href="#">16772234</a>
CIELab	<a href="#">93.05, -6.33, 49.61</a>
CIELCh	<a href="#">93, 50.017, 97.271</a>
Yxy	<a href="#">83.0859, 0.3888, 0.4261</a>
Android (android.graphics.Color)	<a href="#">4294962314</a> (0xFFFFEC8A)
YUV	<a href="#">230.5090, -45.6069, 21.4786</a>
Hunter-Lab	<a href="#">91.1515, -11.0327, 40.3339</a>

# Details

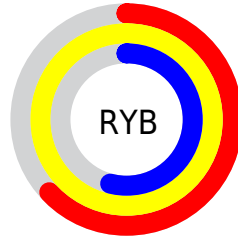
The XYZ color **75.8229, 83.0859, 36.0856** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **40.5879, 36.7360, 99.5591**, and the grayscale version is **75.8983, 79.8509, 86.9577**.

A 20% lighter version of the original color is **86.6256, 96.6303, 64.5379**, and **40.7659, 45.0502, 15.3511** is the 20% darker color. If you saturate the color by 10%, you get **73.0118, 80.0794, 27.0851**, and if you desaturate by 10%, it is **79.0991, 86.3287, 47.3811**.

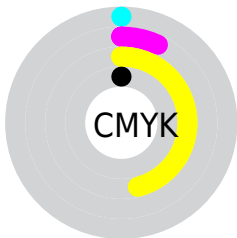
# Distribution



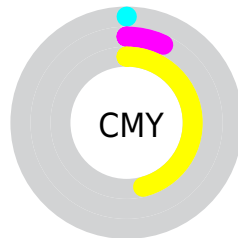
- Red (100%)
- Green (93%)
- Blue (54%)



- Red (63%)
- Yellow (100%)
- Blue (54%)



- Cyan (0%)
- Magenta (7%)
- Yellow (46%)
- Black (0%)




- Cyan (0%)
- Magenta (7%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 75.8229, 83.0859, 36.0856 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 75.8229, 83.0859, 36.0856 by changing the saturation by 10% instead.




 75.8229, 83.0859,  
36.0856

 75.8229, 83.0859,  
36.0856


469.6949,  
505.2728, 344.3832


 56.5838, 62.2610,  
24.2101


 126.4582,  
137.6958, 70.3347

 40.9101, 45.2436,  
15.2759


 158.5852,  
172.2495, 93.5454

 28.4362, 31.6494,  
8.8645


 195.7389,  
212.1484, 121.3715

 18.7968, 21.0938,  
4.5573

238.2846,  
257.7767, 154.2317

 11.6267, 13.1926,  
1.9358

286.5877,  
309.5189, 192.5444

 6.5604, 7.5613,  
0.5154

341.0136,

 3.2326, 3.8155,

367.7594, 236.7282

0.0000

401.9275,  
432.8826, 287.2016

■ 1.2779, 1.5709,  
0.0000

■ 0.1666, 0.3379,  
0.0000

■ 75.8229, 83.0859,  
36.0856

■ 75.8229, 83.0859,  
36.0856

■ 73.0118, 80.0794,  
27.0851

■ 79.0991, 86.3287,  
47.3811

■ 70.6288, 77.2851,  
20.2124

■ 82.8623, 89.8077,  
61.1129

■ 68.6408, 74.6923,  
15.2855

■ 87.1402, 93.5375,  
77.4172

■ 67.0070, 72.2846,  
12.0900

■ 91.9566, 97.5277,  
96.4182

■ 65.6766, 70.0412, 95.0499, 99.9999,  
10.3595 108.9000

■ 65.1863, 69.1527,  
9.9121

# Harmonies

## Analogous

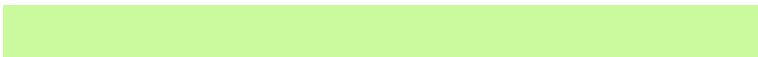
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.1168, 83.0859, 38.8782



75.8229, 83.0859, 36.0856



64.6669, 83.0859, 44.3174

# Triad

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



75.8229, 83.0859, 36.0856



60.5604, 83.0859, 141.6097



104.5788, 83.0859, 121.3269

# Complementary

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



75.8229, 83.0859, 36.0856



40.5879, 36.7360, 99.5591

# 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.



95.2419, 83.0859, 160.9403



75.8229, 83.0859, 36.0856



69.6254, 83.0859, 174.7320

# Square

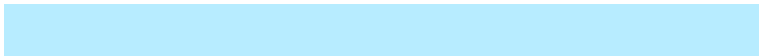
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



75.8229, 83.0859, 36.0856



56.5108, 83.0859, 99.9150



82.2043, 83.0859, 182.6436



106.7095, 83.0859, 81.6332

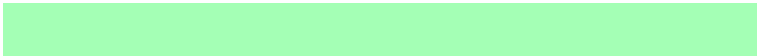


# Rectangle

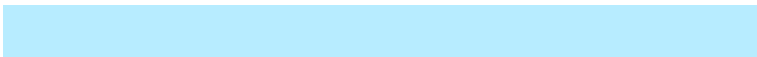
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



75.8229, 83.0859, 36.0856



59.6054, 83.0859, 56.7769



82.2043, 83.0859, 182.6436



102.1325, 83.0859, 135.3845

# Sweetspot

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



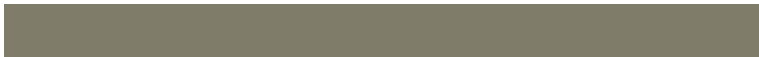
75.8249, 83.0898, 36.0873



88.0047, 94.2682, 80.7823



56.4575, 41.8892, 37.2333



18.6248, 19.9981, 16.4664



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

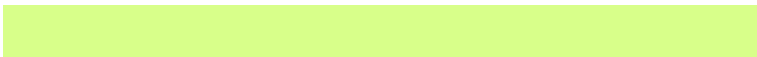
The Same Dimension uses a secret algorithm to generate beautiful new colors.



75.8249, 83.0898, 36.0873



73.2421, 80.3360, 27.7905



68.6667, 87.9539, 37.4035



19.2954, 20.5590, 19.0956



34.1548, 36.3208, 5.2105



3.3896, 3.6645, 0.5287



# Inverse Universe

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



40.5879, 36.7360, 99.5591



34.1069, 28.8868, 98.3858



45.2707, 34.7450, 98.9280



17.2412, 17.8539, 22.7874



9.9227, 4.7550, 49.8294

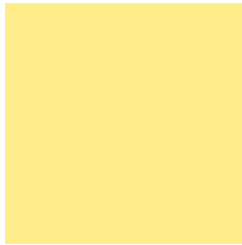


1.0307, 0.5920, 4.8732



# Previews

## White Background



This preview shows how the XYZ color 75.8229, 83.0859, 36.0856 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 75.8229, 83.0859, 36.0856 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 75.8229, 83.0859, 36.0856**

## **Background**



This preview shows how black text looks on a background with the XYZ color 75.8229, 83.0859, 36.0856.



This preview shows how white text looks on a background with the XYZ color 75.8229, 83.0859,



# 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

75.8229, 83.0859, 36.0856

### Protanopia

76.6981, 82.9766, 42.1106

### Deuteranopia

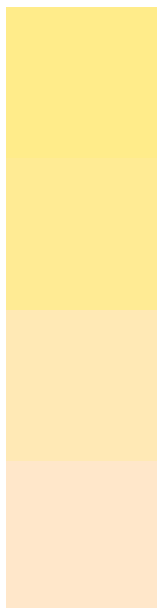
80.9565, 82.8681, 70.1208



## Tritanopia

84.5634, 82.9788, 93.2209

# Trichromacy



## Original Color

75.8229, 83.0859, 36.0856

## Protanomaly

76.2936, 82.8148, 39.9807

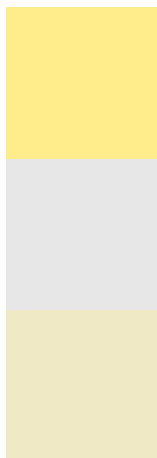
## Deuteranomaly

78.7194, 82.8740, 55.5634

## Tritanomaly

80.4766, 82.6761, 67.5936

# Monochromacy



## Original Color

75.8229, 83.0859, 36.0856

## Achromatopsia

75.9547, 79.9103, 87.0223

## Achromatomaly

75.1521, 80.8343, 64.4650

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 75.8229, 83.0859, 36.0856 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(255, 236, 138)` looks like.

```
.text, #text, p{  
    color:rgb(255, 236, 138)  
}
```

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(255, 236, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 236, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 75.8229, 83.0859, 36.0856 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(255, 236, 138) }
```



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

```
.border{ border-color:rgb(255, 236, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 236, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 236, 138); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 236, 138); box-shadow:4px 4px 4px 4px rgb(255, 236, 138) }
```

# Background

The CSS property to change the background color of an element to XYZ 75.8229, 83.0859, 36.0856 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 236, 138) }
```

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

```
.background{ background-color: rgb(255,  
236, 138) }
```

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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