

# Converting Colors

XYZ(68.1861, 78.7525, 34.7217)

Have a look what the booklet for  
XYZ(68.1861, 78.7525, 34.7217)  
contains.

<b>XYZ(68.0839, 78.6867, 34.8922)</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(68.0839, 78.6867,  
34.8922)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAEB88
RGB	234, 235, 136
RGB Percent	92%, 92%, 53%
CMY	0.0824, 0.0784, 0.4667
CMYK	0.00, 0.00, 0.42, 0.08
HSL	61°, 71%, 73%
HSV	61°, 42%, 92%
XYZ	68.0839, 78.6867, 34.8922
YIQ	223.4150, 31.1830, -31.0010

# Conversions

## Conversions Part 2

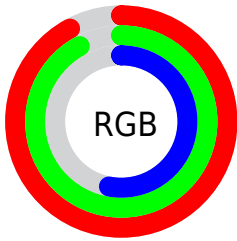
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	136, 235, 137
Decimal	15395720
CIE <sub>Lab</sub>	91.09, -14.23, 47.78
CIE <sub>LCh</sub>	91, 49.853, 106.585
Yxy	78.6867, 0.3748, 0.4331
Android (android.graphics.Color)	4293585800 (0xFFEAEB88)
YUV	223.4150, -43.0956, 9.2830
Hunter-Lab	88.7055, -18.2311, 38.7722

# Details

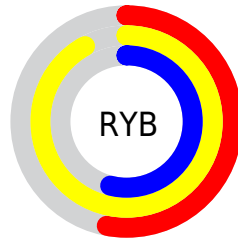
The XYZ color **68.0839, 78.6867, 34.8922** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **34.1190, 28.9268, 82.3872**, and the grayscale version is **70.7178, 74.4006, 81.0223**.

A 20% lighter version of the original color is **86.4040, 96.5416, 63.3706**, and **35.8518, 42.2274, 14.6486** is the 20% darker color. If you saturate the color by 10%, you get **66.5160, 78.0533, 27.0363**, and if you desaturate by 10%, it is **70.0220, 79.4738, 44.6798**.

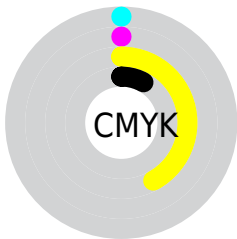
# Distribution



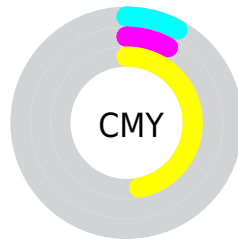
- Red (92%)
- Green (92%)
- Blue (53%)



- Red (53%)
- Yellow (92%)
- Blue (54%)



- Cyan (0%)
- Magenta (0%)
- Yellow (42%)
- Black (8%)




- Cyan (8%)
- Magenta (8%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.0839, 78.6867, 34.8922 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 68.0839, 78.6867, 34.8922 by changing the saturation by 10% instead.





 68.0839, 78.6867,  
34.8922

 68.0839, 78.6867,  
34.8922

443.1653,  
490.4958, 338.9820


 50.2399, 58.6383,  
23.2970


 115.5134,  
131.5177, 68.4684

 35.8226, 42.3220,  
14.6056


 145.8297,  
165.0691, 91.2865

 24.4667, 29.3535,  
8.3995


 181.0340,  
203.8902, 118.6825

 15.8068, 19.3484,  
4.2602

221.4919,  
248.3654, 151.0752

 9.4775, 11.9223,  
1.7692

267.5686,  
298.8792, 188.8829

 5.1135, 6.6908,  
0.4075

319.6295,

 2.3495, 3.2695,

355.8159, 232.5242

0.0000

378.0399,  
419.5600, 282.4178

■ 0.8198, 1.2740,  
0.0000

■ 0.0000, 0.1209,  
0.0000

■ 68.0839, 78.6867,  
34.8922

■ 68.0839, 78.6867,  
34.8922

■ 66.5160, 78.0533,  
27.0363

■ 70.0220, 79.4738,  
44.6798

■ 65.2882, 77.5531,  
20.9797


■ 72.3465, 80.4127,  
56.5101


■ 64.3755, 77.1790,  
16.5815


■ 75.0796, 81.5150,  
70.4914


■ 63.7466, 76.9184,  
13.6775

■ 78.2401, 82.7883,  
86.7229

 63.3640, 76.7564,  
12.0698


 81.8457, 84.2397,  
105.2978

 63.1894, 76.6795,  
11.4702

 82.1644, 84.3763,  
106.5635

 82.2435, 84.4171,  
106.5672

 82.3228, 84.4580,  
106.5709

 82.4021, 84.4989,  
106.5746

# Harmonies

## Analogous

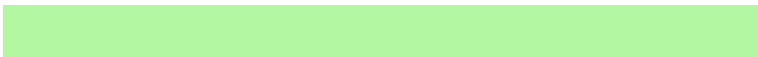
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



80.5533, 78.6867, 34.3492



68.0839, 78.6867, 34.8922



58.5325, 78.6867, 46.2841

# Triad

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



68.0839, 78.6867, 34.8922



59.3410, 78.6867, 146.6189



100.9225, 78.6867, 102.8068

# Complementary

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



68.0839, 78.6867, 34.8922



34.1190, 28.9268, 82.3872

# 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.



93.8079, 78.6867, 142.7700



68.0839, 78.6867, 34.8922



69.3071, 78.6867, 172.4607

# Square

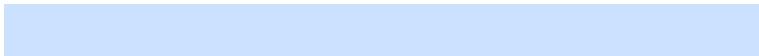
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



68.0839, 78.6867, 34.8922



53.8867, 78.6867, 107.0504



81.9212, 78.6867, 170.8818



100.4995, 78.6867, 67.3555

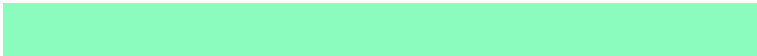


# Rectangle

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



68.0839, 78.6867, 34.8922



54.6842, 78.6867, 60.9516



81.9212, 78.6867, 170.8818



99.3019, 78.6867, 116.3193

# Sweetspot

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



68.0858, 78.6903, 34.8938



90.0408, 97.9820, 83.1686



47.5117, 37.0500, 27.9408



19.1093, 20.9064, 16.9657



0.0000, 0.0000, 0.0000

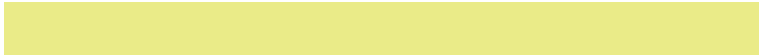


20.3446, 21.4041, 23.3091



# Same Dimension

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



68.0858, 78.6903, 34.8938



80.2136, 94.0094, 33.3032



54.2838, 71.5751, 34.2479



16.3359, 17.6187, 16.0585



35.1728, 42.6767, 6.3836



2.7668, 3.3537, 0.5015



# Inverse Universe

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



34.1190, 28.9268, 82.3872



34.0217, 26.3309, 97.8970



43.9304, 33.9848, 82.8464



14.2454, 14.5563, 18.9811



8.3687, 3.3501, 43.9485

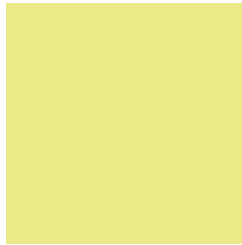


0.6621, 0.2656, 3.4513



# Previews

## White Background



This preview shows how the XYZ color 68.0839, 78.6867, 34.8922 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

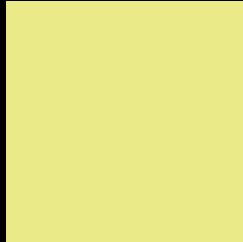
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.0839, 78.6867, 34.8922 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

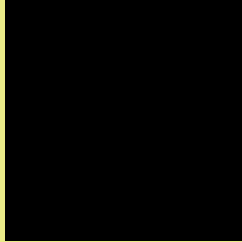
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 68.0839, 78.6867, 34.8922**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.0839, 78.6867, 34.8922.



This preview shows how white text looks on a background with the XYZ color 68.0839, 78.6867,



# 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

68.0839, 78.6867, 34.8922

### Protanopia

72.1060, 78.2691, 33.8613

### Deuteranopia

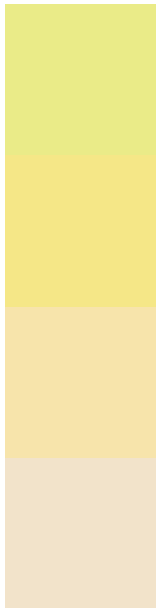
77.2996, 78.3329, 60.3358



## Tritanopia

80.1219, 78.6595, 93.3980

# Trichromacy



## Original Color

68.0839, 78.6867, 34.8922

## Protanomaly

70.6053, 78.3136, 34.3164

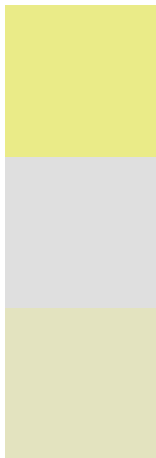
## Deuteranomaly

73.4519, 78.2012, 49.7511

## Tritanomaly

74.7477, 78.0797, 67.0084

# Monochromacy



## Original Color

68.0839, 78.6867, 34.8922

## Achromatopsia

70.1384, 73.7910, 80.3584

## Achromatomaly

68.5516, 75.0307, 60.1595

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.0839, 78.6867, 34.8922 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(234, 235, 136)` looks like.

```
.text, #text, p{  
    color:rgb(234, 235, 136)  
}
```

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(234, 235, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 235, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 68.0839, 78.6867, 34.8922 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(234, 235, 136) }
```



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

```
.border{ border-color:rgb(234, 235, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 235, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 235, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 235, 136);  
box-shadow:4px 4px 4px 4px rgb(234, 235,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.0839, 78.6867, 34.8922 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 235, 136) }
```

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

```
.background{ background-color: rgb(234,  
235, 136) }
```

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