

# Converting Colors

XYZ(68.4410, 78.4833, 41.8893)

Have a look what the booklet for  
XYZ(68.4410, 78.4833, 41.8893)  
contains.

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# Color

**XYZ(68.1276, 78.1345,  
41.6277)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7EA99
RGB	231, 234, 153
RGB Percent	91%, 92%, 60%
CMY	0.0941, 0.0823, 0.4000
CMYK	0.01, 0.00, 0.35, 0.08
HSL	62°, 66%, 76%
HSV	62°, 35%, 92%
XYZ	68.1276, 78.1345, 41.6277
YIQ	223.8690, 24.2130, -25.8270

# Conversions

## Conversions Part 2

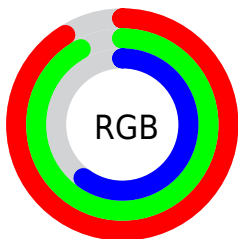
Format	Color
<a href="#">RYB</a>	<a href="#">153, 234, 156</a>
Decimal	<a href="#">15198873</a>
CIELab	<a href="#">90.84, -13.05, 39.05</a>
CIELCh	<a href="#">91, 41.175, 108.480</a>
Yxy	<a href="#">78.1345, 0.3626, 0.4159</a>
Android (android.graphics.Color)	<a href="#">4293388953 (0xFFE7EA99)</a>
YUV	<a href="#">223.8690, -34.9384, 6.2539</a>
Hunter-Lab	<a href="#">88.3937, -17.1139, 33.9539</a>

# Details

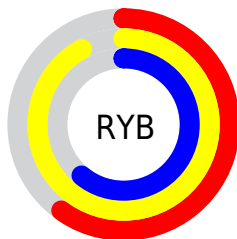
The XYZ color **68.1276, 78.1345, 41.6277** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **39.9557, 35.7928, 82.6493**, and the grayscale version is **70.9893, 74.6862, 81.3333**.

A 20% lighter version of the original color is **88.3852, 97.3341, 73.8035**, and **35.7249, 41.7790, 18.4932** is the 20% darker color. If you saturate the color by 10%, you get **66.1026, 77.2949, 32.4146**, and if you desaturate by 10%, it is **70.5370, 79.1335, 52.8402**.

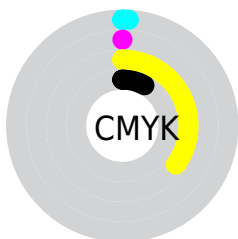
# Distribution



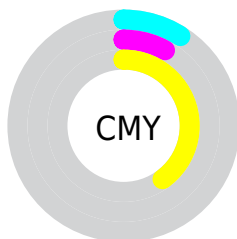
- Red (91%)
- Green (92%)
- Blue (60%)



- Red (60%)
- Yellow (92%)
- Blue (61%)



- Cyan (1%)
- Magenta (0%)
- Yellow (35%)
- Black (8%)




- Cyan (9%)
- Magenta (8%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.1276, 78.1345, 41.6277 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 68.1276, 78.1345, 41.6277 by changing the saturation by 10% instead.





 68.1276, 78.1345,  
41.6277


 68.1276, 78.1345,  
41.6277


443.3176,  
488.6235, 368.6913

 50.2756, 58.1845,  
28.4865


 115.5756,  
130.7397, 78.8998

 35.8511, 41.9570,  
18.4505


 145.9023,  
164.1637, 103.8679

 24.4888, 29.0676,  
11.1011


181.1179,  
202.8478, 133.6152

 15.8233, 19.1320,  
6.0199

221.5878,  
247.1763, 168.5605

 9.4893, 11.7657,  
2.7882

267.6774,  
297.5338, 209.1222

 5.1213, 6.5843,  
0.9875

319.7520,

 2.3541, 3.2035,

354.3045, 255.7189

0.0000

378.1769,  
417.8730, 308.7691

■ 0.8221, 1.2389,  
0.0000

■ 0.0000, 0.0931,  
0.0000

■ 68.1276, 78.1345,  
41.6277

■ 68.1276, 78.1345,  
41.6277

■ 66.1026, 77.2949,  
32.4146

■ 70.5370, 79.1335,  
52.8402

■ 64.4338, 76.5953,  
25.0789


■ 73.3454, 80.2894,  
66.1550


■ 63.0986, 76.0292,  
19.4927


■ 76.5736, 81.6135,  
81.6736


■ 62.0693, 75.5857,  
15.5104


■ 80.2395, 83.1128,  
99.4896


 61.3138, 75.2519,  
12.9625


 81.8485, 83.7895,  
106.4669


 60.7928, 75.0119,  
11.6420

 82.1365, 83.9380,  
106.4803

 60.5765, 74.9085,  
11.2661

 82.4259, 84.0872,  
106.4939

 82.7167, 84.2371,  
106.5075

 83.0089, 84.3877,  
106.5212

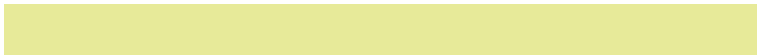
# Harmonies

## Analogous

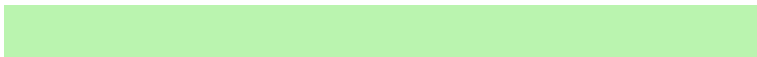
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.3142, 78.1345, 40.5245



68.1276, 78.1345, 41.6277



60.3260, 78.1345, 52.5848

# Triad

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



68.1276, 78.1345, 41.6277



61.8270, 78.1345, 135.3371



95.5432, 78.1345, 96.9846

# Complementary

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



68.1276, 78.1345, 41.6277



39.9557, 35.7928, 82.6493

# 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.



90.1999, 78.1345, 128.7723



68.1276, 78.1345, 41.6277



70.3569, 78.1345, 154.1128

# Square

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



68.1276, 78.1345, 41.6277



56.9285, 78.1345, 104.4700



80.7593, 78.1345, 151.4643



94.8047, 78.1345, 68.2429

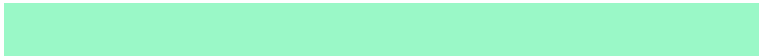


# Rectangle

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



68.1276, 78.1345, 41.6277



57.2317, 78.1345, 65.8170



80.7593, 78.1345, 151.4643



94.3801, 78.1345, 107.7652

# Sweetspot

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



68.1296, 78.1380, 41.6293



90.8655, 98.2861, 88.6773



51.5222, 43.4706, 35.8132



19.3322, 20.9894, 18.4201



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

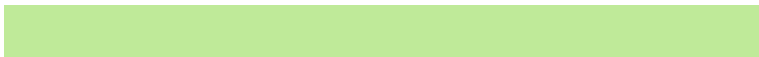
The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.1296, 78.1380, 41.6293



80.8903, 94.1689, 41.8885



56.6111, 72.2001, 41.0903



16.2935, 17.5968, 16.0565



34.0635, 42.1049, 6.3317



2.6921, 3.3152, 0.4980



# Inverse Universe

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



39.9557, 35.7928, 82.6493



41.5496, 35.0317, 99.1796



49.0619, 40.4873, 83.0755



14.2829, 14.5756, 18.9828



8.4297, 3.3816, 43.9514

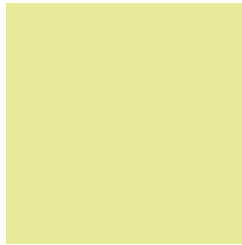


0.6802, 0.2750, 3.4521



# Previews

## White Background



This preview shows how the XYZ color 68.1276, 78.1345, 41.6277 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

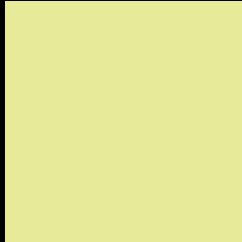
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.1276, 78.1345, 41.6277 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

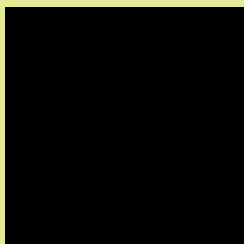
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

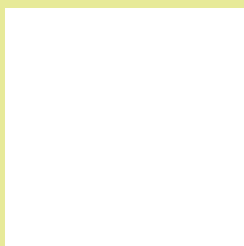
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.1276, 78.1345, 41.6277**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.1276, 78.1345, 41.6277.



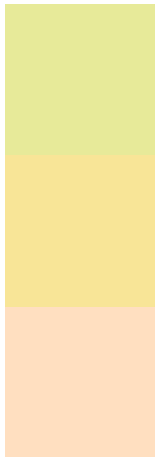
This preview shows how white text looks on a background with the XYZ color 68.1276, 78.1345,



# 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

68.1276, 78.1345, 41.6277

### Protanopia

72.3166, 78.2294, 40.5665

### Deuteranopia

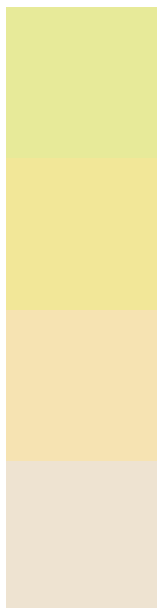
77.1421, 77.8411, 60.8282



## Tritanopia

78.8828, 78.0035, 94.1177

# Trichromacy



## Original Color

68.1276, 78.1345, 41.6277

## Protanomaly

70.8614, 78.2961, 41.0836

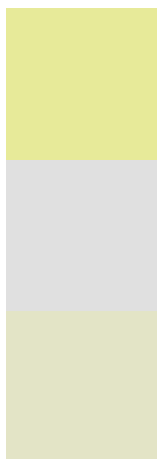
## Deuteranomaly

73.5110, 77.7454, 53.2514

## Tritanomaly

74.2376, 77.7188, 71.4101

# Monochromacy



## Original Color

68.1276, 78.1345, 41.6277

## Achromatopsia

70.8507, 74.5404, 81.1745

## Achromatomaly

69.6150, 75.8949, 64.4062

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.1276, 78.1345, 41.6277 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(231, 234, 153)` looks like.

```
.text, #text, p{  
    color:rgb(231, 234, 153)  
}
```

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(231, 234, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 234, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 68.1276, 78.1345, 41.6277 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(231, 234, 153) }
```



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

```
.border{ border-color:rgb(231, 234, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 234, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 234, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 234, 153);  
box-shadow:4px 4px 4px 4px rgb(231, 234,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.1276, 78.1345, 41.6277 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 234, 153) }
```

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

```
.background{ background-color: rgb(231,  
234, 153) }
```

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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