

# Converting Colors

XYZ(67.3233, 87.7564, 14.9817)

Have a look what the booklet for  
XYZ(67.3233, 87.7564, 14.9817)  
contains.

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# Color

**XYZ(67.4274, 87.8101,  
14.9854)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E2FF23
RGB	226, 255, 35
RGB Percent	89%, 100%, 14%
CMY	0.1137, 0.0000, 0.8627
CMYK	0.11, 0.00, 0.86, 0.00
HSL	68°, 100%, 57%
HSV	68°, 86%, 100%
XYZ	67.4274, 87.8101, 14.9854
YIQ	221.2490, 53.3360, -74.5680

# Conversions

## Conversions Part 2

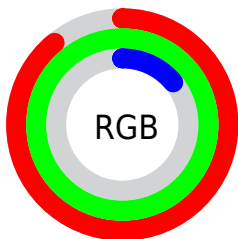
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	35, 255, 64
Decimal	14876451
CIE Lab	95.08, -32.86, 88.26
CIE LCh	95, 94.179, 110.424
Yxy	87.8101, 0.3961, 0.5159
Android (android.graphics.Color)	4293066531 (0xFFE2FF23)
YUV	221.2490, -91.8208, 4.1666
Hunter-Lab	93.7070, -35.5467, 56.1134

# Details

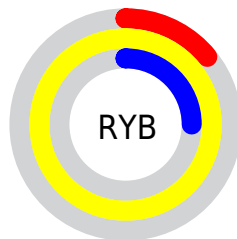
The XYZ color **67.4274, 87.8101, 14.9854** is a light color, and the websafe version is hex **CCFF00**. The color can be described as light washed yellow. A complement of this color would be **20.7669, 9.5135, 95.3495**, and the grayscale version is **69.5019, 73.1215, 79.6293**.

A 20% lighter version of the original color is **79.6015, 93.8206, 27.5494**, and **35.9200, 48.4952, 7.4673** is the 20% darker color. If you saturate the color by 10%, you get **66.1320, 87.1713, 13.6135**, and if you desaturate by 10%, it is **69.0177, 88.5692, 17.8047**.

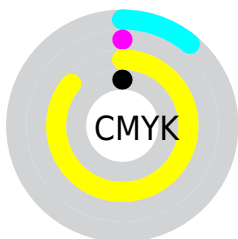
# Distribution



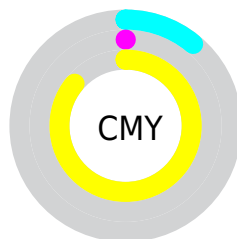
- Red (89%)
- Green (100%)
- Blue (14%)



- Red (14%)
- Yellow (100%)
- Blue (25%)



- Cyan (11%)
- Magenta (0%)
- Yellow (86%)
- Black (0%)



- Cyan (11%)
- Magenta (0%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.4274, 87.8101, 14.9854 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 67.4274, 87.8101, 14.9854 by changing the saturation by 10% instead.





 67.4274, 87.8101,  
14.9854


 67.4274, 87.8101,  
14.9854


440.8732,  
520.8812, 234.9156


 49.7040, 66.1658,  
8.6626


 114.5790,  
144.2927, 35.5695

 35.3951, 48.4070,  
4.4280


 144.7380,  
179.8999, 50.6679


 24.1353, 34.1493,  
1.8630


 179.7729,  
220.9301, 69.5286

 15.5593, 23.0083,  
0.4690

 220.0490,  
267.7678, 92.5702

 9.3017, 14.5997,  
0.0000

 265.9317,  
320.7974, 120.2111

 4.9972, 8.5389,  
0.0000

317.7864,

 2.2804, 4.4417,

380.4032, 152.8700

0.0000

375.9785,  
446.9696, 190.9653

■ 0.7846, 1.9236,  
0.0000

■ 0.0000, 0.5625,  
0.0000

■ 67.4274, 87.8101,  
14.9854

■ 67.4274, 87.8101,  
14.9854

■ 66.1320, 87.1713,  
13.6135

■ 69.0177, 88.5692,  
17.8047

■ 65.6956, 86.9523,  
13.3210

■ 70.9541, 89.4691,  
22.3370

■ 73.2778, 90.5264,  
28.7994

■ 76.0238, 91.7550,  
37.3764

79.2233, 93.1675,  
48.2308

82.9042, 94.7750,  
61.5096

87.0923, 96.5878,  
77.3474

91.8113, 98.6154,  
95.8691

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



91.9253, 87.8101, 13.0675



67.4274, 87.8101, 14.9854



50.9646, 87.8101, 30.9609

# Triad

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



67.4274, 87.8101, 14.9854



55.8512, 87.8101, 250.7393



142.0528, 87.8101, 121.0476

# Complementary

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



67.4274, 87.8101, 14.9854



20.7669, 9.5135, 95.3495

# 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.



127.4676, 87.8101, 216.5671



67.4274, 87.8101, 14.9854



75.5326, 87.8101, 313.0339

# Square

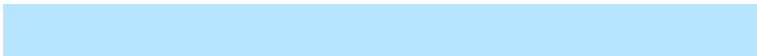
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



67.4274, 87.8101, 14.9854



45.2918, 87.8101, 153.7592



101.8536, 87.8101, 298.0633



138.6455, 87.8101, 54.3534



# Rectangle

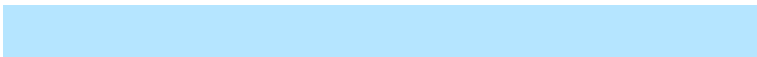
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



67.4274, 87.8101, 14.9854



45.1263, 87.8101, 55.7092



101.8536, 87.8101, 298.0633



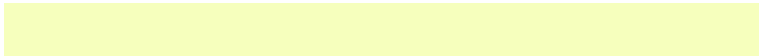
138.9951, 87.8101, 151.0852

# Sweetspot

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



67.4274, 87.8101, 14.9866



83.0099, 94.8209, 61.9007



43.1953, 24.6849, 4.0793



17.4816, 20.1711, 12.1991



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.



67.4274, 87.8101, 14.9866



65.6956, 86.9523, 13.3210



43.7185, 75.5877, 13.8770



19.3118, 20.9622, 19.1726



34.4191, 45.4818, 6.9648



3.4139, 4.4607, 0.6811



# Inverse Universe

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



20.7669, 9.5135, 95.3495



18.6971, 7.5536, 95.0803



35.3748, 17.0442, 96.0331



17.2256, 17.4925, 22.7185



9.8377, 3.9820, 49.6847

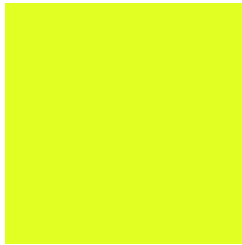


1.0235, 0.4216, 4.8407



# Previews

## White Background



This preview shows how the XYZ color 67.4274, 87.8101, 14.9854 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

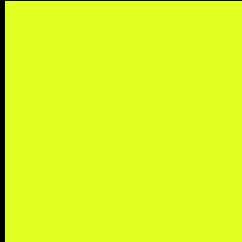
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.4274, 87.8101, 14.9854 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 67.4274, 87.8101, 14.9854

## Background



This preview shows how black text looks on a background with the XYZ color 67.4274, 87.8101, 14.9854.



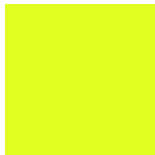
This preview shows how white text looks on a background with the XYZ color 67.4274, 87.8101,



# 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

67.4274, 87.8101, 14.9854



### Protanopia

81.1388, 87.5480, 56.8779



### Deuteranopia

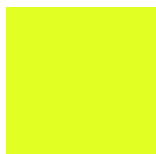
84.3389, 87.4188, 78.0740



## Tritanopia

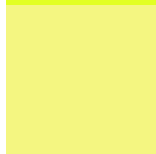
85.9904, 87.2009, 106.9070

# Trichromacy



## Original Color

67.4274, 87.8101, 14.9854



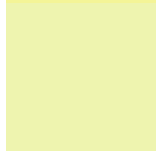
## Protanomaly

74.2264, 86.7296, 33.5972



## Deuteranomaly

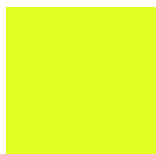
75.2448, 86.1688, 41.9446



## Tritanomaly

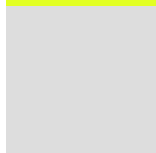
75.3484, 85.9737, 53.1807

# Monochromacy



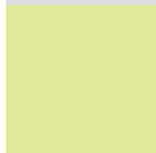
## Original Color

67.4274, 87.8101, 14.9854



## Achromatopsia

68.7264, 72.3055, 78.7407



## Achromatomaly

65.3201, 76.2657, 41.4150

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.4274, 87.8101, 14.9854 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(226, 255, 35)` looks like.

```
.text, #text, p{  
    color:rgb(226, 255, 35)  
}
```

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(226, 255, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 255, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 67.4274, 87.8101, 14.9854 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(226, 255, 35) }
```



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

```
.border{ border-color:rgb(226, 255, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 255, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 255, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 255, 35);  
box-shadow:4px 4px 4px 4px rgb(226, 255,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.4274, 87.8101, 14.9854 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 255, 35) }
```

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

```
.background{ background-color: rgb(226,  
255, 35) }
```

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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