

# Converting Colors

XYZ(70.5725, 86.7532, 30.1677)

Have a look what the booklet for  
XYZ(70.5725, 86.7532, 30.1677)  
contains.

<b>XYZ(70.4106, 86.6681, 30.1571)</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(70.4106, 86.6681,  
30.1571)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7FA76
RGB	231, 250, 118
RGB Percent	91%, 98%, 46%
CMY	0.0941, 0.0196, 0.5372
CMYK	0.08, 0.00, 0.53, 0.02
HSL	69°, 93%, 72%
HSV	69°, 53%, 98%
XYZ	70.4106, 86.6681, 30.1571
YIQ	229.2710, 31.0480, -45.0800

# Conversions

## Conversions Part 2

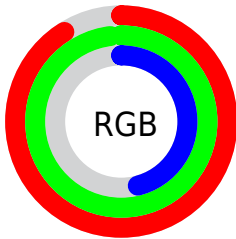
Format	Color
<a href="#">RYB</a>	<a href="#">118, 250, 137</a>
Decimal	<a href="#">15202934</a>
CIELab	<a href="#">94.60, -24.30, 60.32</a>
CIELCh	<a href="#">95, 65.026, 111.942</a>
Yxy	<a href="#">86.6681, 0.3761, 0.4629</a>
Android (android.graphics.Color)	<a href="#">4293393014 (0xFFE7FA76)</a>
YUV	<a href="#">229.2710, -54.8566, 1.5163</a>
Hunter-Lab	<a href="#">93.0957, -27.9135, 45.9608</a>

# Details

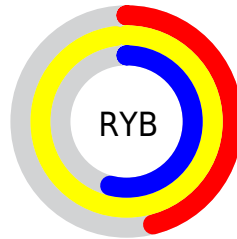
The XYZ color **70.4106, 86.6681, 30.1571** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **34.0533, 25.1795, 93.5129**, and the grayscale version is **75.0532, 78.9618, 85.9894**.

A 20% lighter version of the original color is **84.5428, 95.7971, 53.5700**, and **37.4226, 47.8267, 11.9617** is the 20% darker color. If you saturate the color by 10%, you get **67.9683, 85.5614, 23.2893**, and if you desaturate by 10%, it is **73.2746, 87.9524, 39.1028**.

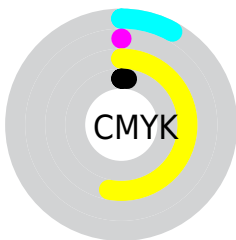
# Distribution



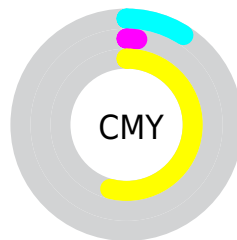
- Red (91%)
- Green (98%)
- Blue (46%)



- Red (46%)
- Yellow (98%)
- Blue (54%)



- Cyan (8%)
- Magenta (0%)
- Yellow (53%)
- Black (2%)




- Cyan (9%)
- Magenta (2%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.4106, 86.6681, 30.1571 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 70.4106, 86.6681, 30.1571 by changing the saturation by 10% instead.




 70.4106, 86.6681,  
30.1571

 70.4106, 86.6681,  
30.1571


451.2343,  
517.1316, 316.8661


 52.1421, 65.2206,  
19.7048


 118.8172,  
142.7014, 60.9745

 37.3431, 47.6400,  
11.9987


 149.6860,  
178.0560, 82.1766

 25.6482, 33.5419,  
6.6203


 185.4857,  
218.8151, 107.7991

 16.6919, 22.5419,  
3.1510

226.5816,  
265.3631, 138.2606

 10.1090, 14.2556,  
1.1722

273.3391,  
318.0843, 173.9794

 5.5341, 8.2986,  
0.0000

326.1235,

 2.6019, 4.2866,

377.3632, 215.3743

0.0000

385.3001,  
443.5842, 262.8637

0.9469, 1.8352,  
0.0000

0.0000, 0.5089,  
0.0000

70.4106, 86.6681,  
30.1571

70.4106, 86.6681,  
30.1571

67.9683, 85.5614,  
23.2893

73.2746, 87.9524,  
39.1028

65.9096, 84.6078,  
18.3264

76.5827, 89.4140,  
50.2705


64.1995, 83.7964,  
15.0763


80.3627, 91.0672,  
63.7975

62.7935, 83.1093,  
13.3045

84.6386, 92.9216,  
79.8086

 61.9217, 82.6725,  
12.6938

 89.4326, 94.9860,  
98.4199

 92.5994, 96.4024,  
108.3347

 93.4775, 96.8551,  
108.3758

# Harmonies

## Analogous

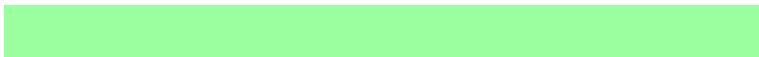
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.1919, 86.6681, 27.4212



70.4106, 86.6681, 30.1571



58.5818, 86.6681, 46.4870

# Triad

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



70.4106, 86.6681, 30.1571



63.2932, 86.6681, 192.6196



120.4629, 86.6681, 108.5576

# Complementary

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



70.4106, 86.6681, 30.1571



34.0533, 25.1795, 93.5129

# 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.



111.8705, 86.6681, 167.2694



70.4106, 86.6681, 30.1571



77.7397, 86.6681, 225.8628

# Square

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



70.4106, 86.6681, 30.1571



54.8970, 86.6681, 135.2325



95.6243, 86.6681, 215.2275



117.7663, 86.6681, 62.6945



# Rectangle

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



70.4106, 86.6681, 30.1571



54.3031, 86.6681, 67.4923



95.6243, 86.6681, 215.2275



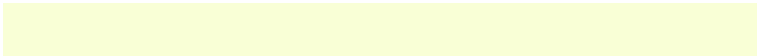
118.7605, 86.6681, 127.5685

# Sweetspot

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



70.4127, 86.6720, 30.1589



87.0348, 96.5481, 77.8007



51.4453, 39.1302, 21.9821



18.4300, 20.5790, 15.9052



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.



70.4127, 86.6720, 30.1589



71.0322, 89.4683, 24.1975



53.2686, 77.8339, 29.3566



18.4673, 20.0567, 18.3604



32.9381, 43.8985, 6.7372



3.1157, 4.0993, 0.6270



# Inverse Universe

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



34.0533, 25.1795, 93.5129



29.4849, 19.1031, 96.7410



47.9856, 32.3618, 94.1649



16.5155, 16.7629, 21.7504



9.6093, 3.8964, 48.2192

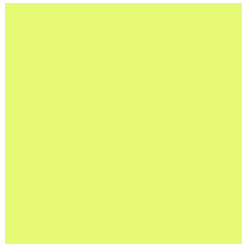


0.9580, 0.3959, 4.4691



# Previews

## White Background



This preview shows how the XYZ color 70.4106, 86.6681, 30.1571 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

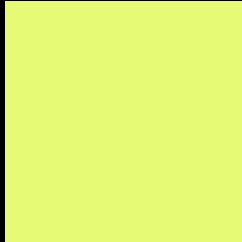
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.4106, 86.6681, 30.1571 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 70.4106, 86.6681, 30.1571**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.4106, 86.6681, 30.1571.



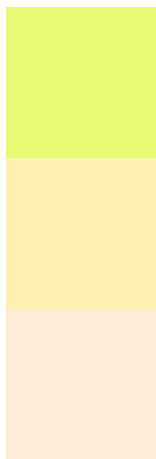
This preview shows how white text looks on a background with the XYZ color 70.4106, 86.6681,



# 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

70.4106, 86.6681, 30.1571

### Protanopia

80.0423, 86.1673, 54.0082

### Deuteranopia

83.6301, 86.2088, 77.1979



## Tritanopia

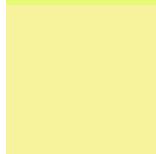
85.6038, 86.1652, 105.8857

# Trichromacy



## Original Color

70.4106, 86.6681, 30.1571



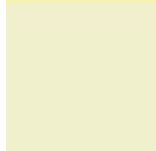
## Protanomaly

76.0574, 86.0943, 44.0617



## Deuteranomaly

77.6996, 85.7987, 55.6456



## Tritanomaly

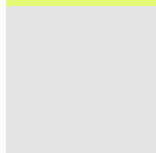
78.4552, 85.4287, 70.1120

# Monochromacy



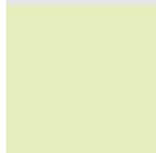
## Original Color

70.4106, 86.6681, 30.1571



## Achromatopsia

74.4753, 78.3538, 85.3273



## Achromatomaly

72.1026, 81.0655, 59.9911

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.4106, 86.6681, 30.1571 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, 250, 118)` looks like.

```
.text, #text, p{  
    color:rgb(231, 250, 118)  
}
```

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, 250, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 250, 118) }
```

## Border

The CSS property to change the border of an element to XYZ 70.4106, 86.6681, 30.1571 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, 250, 118) }
```



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

```
.border{ border-color:rgb(231, 250, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 250, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 250, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 250, 118);  
box-shadow:4px 4px 4px 4px rgb(231, 250,  
118) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.4106, 86.6681, 30.1571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 250, 118) }
```

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

```
.background{ background-color: rgb(231,  
250, 118) }
```

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