

# Converting Colors

XYZ(73.1705, 100.0000,  
33.2565)

Have a look what the booklet for  
XYZ(73.1705, 100.0000, 33.2565)  
contains.

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# Color

**XYZ(66.5907, 87.0222,  
31.0566)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D5FF78
RGB	213, 255, 120
RGB Percent	84%, 100%, 47%
CMY	0.1647, 0.0000, 0.5294
CMYK	0.16, 0.00, 0.53, 0.00
HSL	79°, 100%, 74%
HSV	79°, 53%, 100%
XYZ	66.5907, 87.0222, 31.0566
YIQ	227.0520, 18.3030, -50.8890

# Conversions

## Conversions Part 2

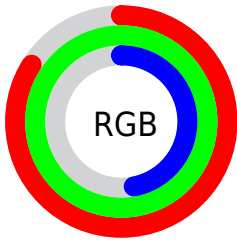
Format	Color
<a href="#">RYB</a>	<a href="#">120, 255, 162</a>
Decimal	<a href="#">14024568</a>
CIELab	<a href="#">94.75, -33.28, 59.29</a>
CIELCh	<a href="#">95, 67.994, 119.305</a>
Yxy	<a href="#">87.0222, 0.3606, 0.4712</a>
Android (android.graphics.Color)	<a href="#">4292214648 (0xFFD5FF78)</a>
YUV	<a href="#">227.0520, -52.7766, -12.3236</a>
Hunter-Lab	<a href="#">93.2857, -35.8302, 45.5612</a>

# Details

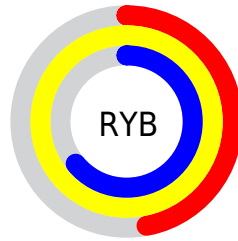
The XYZ color **66.5907, 87.0222, 31.0566** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **39.6681, 28.3357, 97.9863**, and the grayscale version is **73.4135, 77.2367, 84.1108**.

A 20% lighter version of the original color is **84.7379, 95.8751, 54.5970**, and **34.8878, 47.8494, 12.5513** is the 20% darker color. If you saturate the color by 10%, you get **62.9981, 85.3258, 23.8578**, and if you desaturate by 10%, it is **70.7083, 88.9416, 40.4330**.

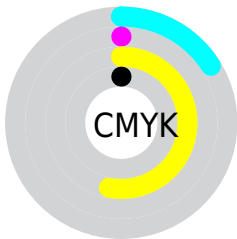
# Distribution



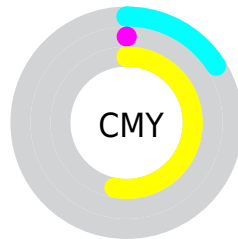
- Red (84%)
- Green (100%)
- Blue (47%)



- Red (47%)
- Yellow (100%)
- Blue (64%)



- Cyan (16%)
- Magenta (0%)
- Yellow (53%)
- Black (0%)



- Cyan (16%)
- Magenta (0%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.5907, 87.0222, 31.0566 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 66.5907, 87.0222, 31.0566 by changing the saturation by 10% instead.



66.5907, 87.0222,  
31.0566

66.5907, 87.0222,  
31.0566

437.9419,  
518.2958, 321.1583

49.0215, 65.5136,  
20.3831

113.3868,  
143.1951, 62.4098

34.8512, 47.8776,  
12.4870

143.3444,  
178.6281, 83.9266

23.7142, 33.7300,  
6.9497

178.1622,  
219.4714, 109.8949

15.2454, 22.6863,  
3.3527

218.2056,  
266.1094, 140.7333

9.0792, 14.3620,  
1.2774

263.8399,  
318.9265, 176.8603

4.8504, 8.3729,  
0.0432

315.4305,

2.1936, 4.3345,

378.3069, 218.6944

0.0000

373.3427,  
444.6353, 266.6542

■ 0.7394, 1.8624,  
0.0000

■ 0.0000, 0.5256,  
0.0000

■ 66.5907, 87.0222,  
31.0566

■ 66.5907, 87.0222,  
31.0566

■ 62.9981, 85.3258,  
23.8578

■ 70.7083, 88.9416,  
40.4330

■ 59.8949, 83.8379,  
18.6564

■ 75.3817, 91.0966,  
52.1404

■ 57.2410, 82.5424,  
15.2496

■ 80.6398, 93.4987,  
66.3227

■ 54.9875, 81.4195,  
13.3898

■ 86.5088, 96.1588,  
83.1110

■ 53.5885, 80.7109,  
12.7544

■ 93.0136, 99.0869,  
102.6273

95.0500, 100.0000,  
108.9000

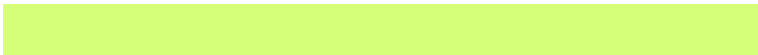
# Harmonies

## Analogous

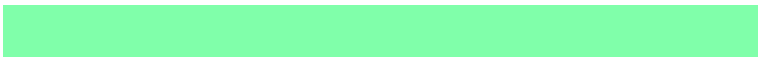
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.1413, 87.0222, 25.2997



66.5907, 87.0222, 31.0566



55.8905, 87.0222, 51.9054

# Triad

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



66.5907, 87.0222, 31.0566



65.9503, 87.0222, 211.1648



123.3255, 87.0222, 95.9852

# Complementary

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



66.5907, 87.0222, 31.0566



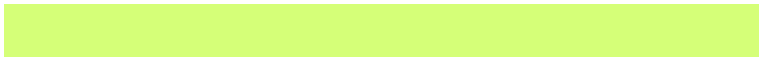
39.6681, 28.3357, 97.9863

# 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.



116.9783, 87.0222, 156.3838



66.5907, 87.0222, 31.0566



82.2841, 87.0222, 236.2826

# Square

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



66.5907, 87.0222, 31.0566



55.5611, 87.0222, 153.4332



101.2454, 87.0222, 213.2661

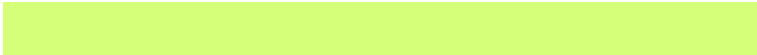


117.5192, 87.0222, 53.3419



# Rectangle

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



66.5907, 87.0222, 31.0566



52.6164, 87.0222, 77.1819



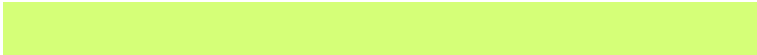
101.2454, 87.0222, 213.2661



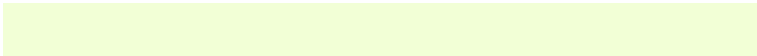
122.5293, 87.0222, 114.8056

# Sweetspot

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



66.5909, 87.0222, 31.0578



84.6463, 95.3167, 77.6890



57.2885, 47.9324, 24.0030



17.8567, 20.2835, 15.8784



0.0000, 0.0000, 0.0000

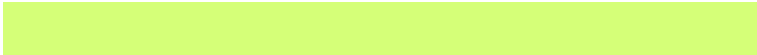


20.3446, 21.4041, 23.3091



# Same Dimension

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



66.5909, 87.0222, 31.0578



62.6465, 85.1584, 23.2148



51.1836, 79.0795, 30.3368



18.9791, 20.7907, 19.1570



28.1617, 42.2560, 6.6719



2.8544, 4.1723, 0.6549



# Inverse Universe

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



39.6681, 28.3357, 97.9863



33.1141, 20.6415, 96.8466



56.7621, 37.1480, 98.7863



17.5346, 17.6518, 22.7329



11.2651, 4.7178, 49.7515

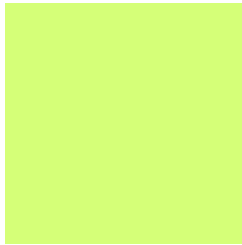


1.2034, 0.5143, 4.8491



# Previews

## White Background



This preview shows how the XYZ color 66.5907, 87.0222, 31.0566 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

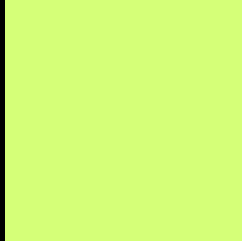
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.5907, 87.0222, 31.0566 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

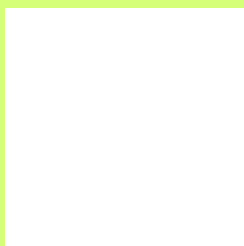
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 66.5907, 87.0222, 31.0566**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.5907, 87.0222, 31.0566.



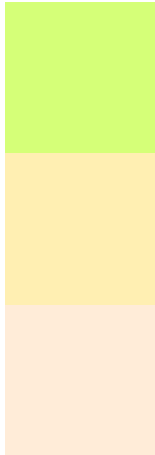
This preview shows how white text looks on a background with the XYZ color 66.5907, 87.0222,



# 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

66.5907, 87.0222, 31.0566

### Protanopia

80.1424, 86.2074, 54.5352

### Deuteranopia

83.6301, 86.2088, 77.1979



## Tritanopia

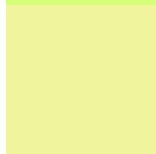
82.4888, 86.6960, 106.9941

# Trichromacy



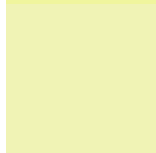
## Original Color

66.5907, 87.0222, 31.0566



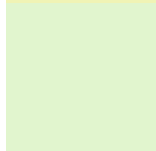
## Protanomaly

74.6734, 86.2644, 44.6133



## Deuteranomaly

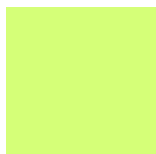
76.3263, 85.9626, 56.2857



## Tritanomaly

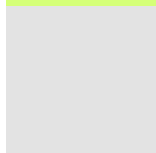
74.8443, 85.7686, 71.0028

# Monochromacy



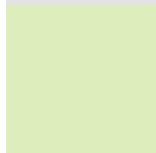
## Original Color

66.5907, 87.0222, 31.0566



## Achromatopsia

73.0128, 76.8151, 83.6517



## Achromatomaly

69.4855, 79.7288, 59.3039

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.5907, 87.0222, 31.0566 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(213, 255, 120)` looks like.

```
.text, #text, p{  
    color:rgb(213, 255, 120)  
}
```

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(213, 255, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 255, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 66.5907, 87.0222, 31.0566 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(213, 255, 120) }
```



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

```
.border{ border-color:rgb(213, 255, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 255, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(213, 255, 120); -webkit-box-shadow:4px 4px 4px 4px rgb(213, 255, 120); box-shadow:4px 4px 4px 4px rgb(213, 255, 120) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.5907, 87.0222, 31.0566 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 255, 120) }
```

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

```
.background{ background-color: rgb(213,  
255, 120) }
```

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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