

# Converting Colors

XYZ(73.8287, 100.0000,  
31.6103)

Have a look what the booklet for  
XYZ(73.8287, 100.0000, 31.6103)  
contains.

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# Color

**XYZ(67.7680, 87.6632,  
29.5686)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | DAFF73                      |
| RGB         | 218, 255, 115               |
| RGB Percent | 85%, 100%, 45%              |
| CMY         | 0.1451, 0.0000, 0.5490      |
| CMYK        | 0.15, 0.00, 0.55, 0.00      |
| HSL         | 76°, 100%, 73%              |
| HSV         | 76°, 55%, 100%              |
| XYZ         | 67.7680, 87.6632, 29.5686   |
| YIQ         | 227.9770, 22.8880, -51.3840 |

# Conversions

## Conversions Part 2

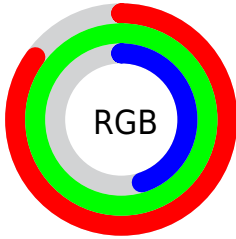
| <b>Format</b>                       | <b>Color</b>                                    |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">115, 255, 152</a>                   |
| Decimal                             | <a href="#">14352243</a>                        |
| CIELab                              | <a href="#">95.02, -31.85, 61.90</a>            |
| CIELCh                              | <a href="#">95, 69.610, 117.227</a>             |
| Yxy                                 | <a href="#">87.6632, 0.3663,<br/>0.4739</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4292542323<br/>(0xFFDAFF73)</a>     |
| YUV                                 | <a href="#">227.9770, -55.6977,<br/>-8.7498</a> |
| Hunter-Lab                          | <a href="#">93.6286, -34.6526,<br/>46.8158</a>  |

# Details

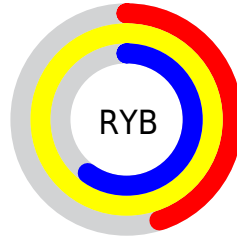
The XYZ color **67.7680, 87.6632, 29.5686** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **37.1308, 26.1582, 97.6998**, and the grayscale version is **74.1084, 77.9678, 84.9069**.

A 20% lighter version of the original color is **84.3507, 95.7203, 52.5582**, and **35.5069, 48.1880, 11.7048** is the 20% darker color. If you saturate the color by 10%, you get **64.5231, 86.1372, 22.7880**, and if you desaturate by 10%, it is **71.5011, 89.3941, 38.4925**.

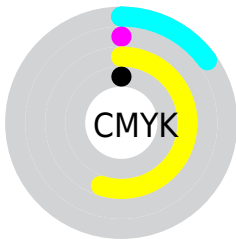
# Distribution



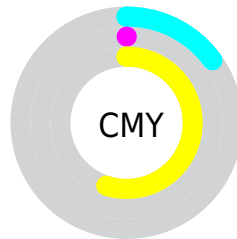
- Red (85%)
- Green (100%)
- Blue (45%)



- Red (45%)
- Yellow (100%)
- Blue (60%)



- Cyan (15%)
- Magenta (0%)
- Yellow (55%)
- Black (0%)




- Cyan (15%)
- Magenta (0%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.7680, 87.6632, 29.5686 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 67.7680, 87.6632, 29.5686 by changing the saturation by 10% instead.





 67.7680, 87.6632,  
29.5686

 67.7680, 87.6632,  
29.5686


442.0632,  
520.3997, 314.0329


 49.9820, 66.0442,  
19.2621


 115.0639,  
144.0882, 60.0322

 35.6168, 48.3083,  
11.6811


 145.3046,  
179.6629, 81.0264

 24.3072, 34.0711,  
6.4070


 180.4275,  
220.6583, 106.4202

 15.6876, 22.9482,  
3.0214

220.7980,  
267.4588, 136.6322

 9.3928, 14.5553,  
1.1056

266.7814,  
320.4488, 172.0809

 5.0574, 8.5079,  
0.0000

318.7432,

 2.3161, 4.4216,

380.0127, 213.1849

0.0000

377.0487,  
446.5348, 260.3627

■ 0.8029, 1.9121,  
0.0000

■ 0.0000, 0.5556,  
0.0000

■ 67.7680, 87.6632,  
29.5686

■ 67.7680, 87.6632,  
29.5686

■ 64.5231, 86.1372,  
22.7880

■ 71.5011, 89.3941,  
38.4925

■ 61.7304, 84.8013,  
17.9658


■ 75.7531, 91.3421,  
49.7165


■ 59.3492, 83.6393,  
14.8926

■ 80.5528, 93.5188,  
63.3869

■ 57.3291, 82.6309,  
13.3087

■ 85.9264, 95.9349,  
79.6369

 56.4019, 82.1613,  
12.8860

 91.8982, 98.6001,  
98.5900

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.



85.0927, 87.6632, 24.6439



67.7680, 87.6632, 29.5686



56.3350, 87.6632, 49.4491

# Triad

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



67.7680, 87.6632, 29.5686



65.1477, 87.6632, 212.5123



125.1723, 87.6632, 100.5774

# Complementary

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



67.7680, 87.6632, 29.5686



37.1308, 26.1582, 97.6998

# 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.



117.7864, 87.6632, 163.6449



67.7680, 87.6632, 29.5686



81.5745, 87.6632, 241.8202

# Square

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



67.7680, 87.6632, 29.5686



54.9907, 87.6632, 151.4609



101.0888, 87.6632, 221.2185



120.0160, 87.6632, 55.2940



# Rectangle

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



67.7680, 87.6632, 29.5686



52.6528, 87.6632, 74.2287



101.0888, 87.6632, 221.2185



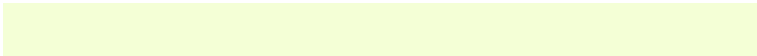
124.0512, 87.6632, 120.3742

# Sweetspot

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



67.7682, 87.6633, 29.5698



85.3067, 95.6572, 77.7199



55.2416, 44.3116, 21.8623



18.0150, 20.3650, 15.8858



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.



67.7682, 87.6633, 29.5698



64.1946, 85.9812, 22.1653



51.4330, 79.2422, 28.8053



19.0653, 20.8351, 19.1611



29.6196, 43.0075, 6.7402



2.9871, 4.2407, 0.6611



# Inverse Universe

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



37.1308, 26.1582, 97.6998



30.8220, 18.8276, 96.6173



53.6967, 34.6982, 98.4750



17.4532, 17.6098, 22.7291



10.7740, 4.4647, 49.7285

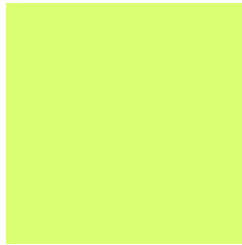


1.1468, 0.4851, 4.8465



# Previews

## White Background



This preview shows how the XYZ color 67.7680, 87.6632, 29.5686 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

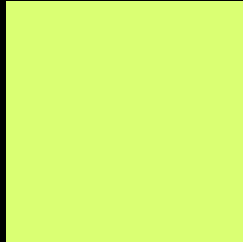
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.7680, 87.6632, 29.5686 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 67.7680, 87.6632, 29.5686**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.7680, 87.6632, 29.5686.



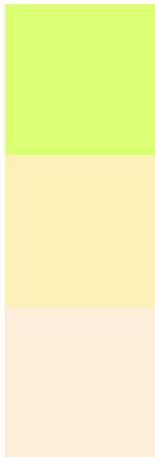
This preview shows how white text looks on a background with the XYZ color 67.7680, 87.6632,



# 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

67.7680, 87.6632, 29.5686

### Protanopia

80.9473, 86.9991, 57.3259

### Deuteranopia

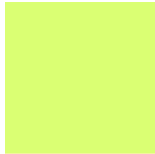
84.1791, 86.8903, 78.6645



## Tritanopia

83.8022, 87.3730, 107.0556

# Trichromacy



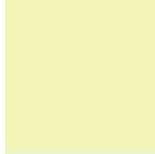
## Original Color

67.7680, 87.6632, 29.5686



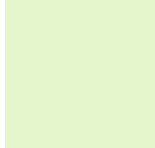
## Protanomaly

75.4419, 86.6507, 45.0968



## Deuteranomaly

77.3091, 86.9148, 56.4177



## Tritanomaly

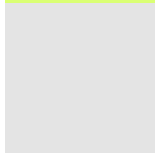
75.8646, 86.3225, 69.7902

# Monochromacy



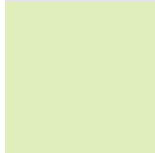
## Original Color

67.7680, 87.6632, 29.5686



## Achromatopsia

73.7419, 77.5822, 84.4870



## Achromatomaly

70.2846, 80.5842, 58.8636

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.7680, 87.6632, 29.5686 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(218, 255, 115)` looks like.

```
.text, #text, p{  
    color:rgb(218, 255, 115)  
}
```

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(218, 255, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 255, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 67.7680, 87.6632, 29.5686 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(218, 255, 115) }
```



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

```
.border{ border-color:rgb(218, 255, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 255, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 255, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 255, 115);  
box-shadow:4px 4px 4px 4px rgb(218, 255,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.7680, 87.6632, 29.5686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 255, 115) }
```

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

```
.background{ background-color: rgb(218,  
255, 115) }
```

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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