

# Converting Colors

XYZ(67.0088, 87.6183, 25.9479)

Have a look what the booklet for  
XYZ(67.0088, 87.6183, 25.9479)  
contains.

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# Color

**XYZ(66.7735, 87.2310,  
25.8883)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D9FF66
RGB	217, 255, 102
RGB Percent	85%, 100%, 40%
CMY	0.1490, 0.0000, 0.6000
CMYK	0.15, 0.00, 0.60, 0.00
HSL	75°, 100%, 70%
HSV	75°, 60%, 100%
XYZ	66.7735, 87.2310, 25.8883
YIQ	226.1960, 26.4650, -55.6390

# Conversions

## Conversions Part 2

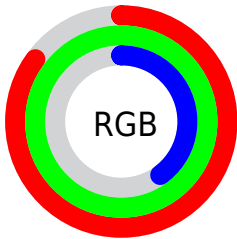
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	102, 255, 140
Decimal	14286694
CIE Lab	94.84, -33.26, 67.20
CIE LCh	95, 74.974, 116.331
Yxy	87.2310, 0.3712, 0.4849
Android (android.graphics.Color)	4292476774 (0xFFD9FF66)
YUV	226.1960, -61.2286, -8.0649
Hunter-Lab	93.3975, -35.8292, 48.9440

# Details

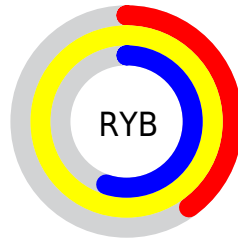
The XYZ color **66.7735, 87.2310, 25.8883** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **33.6179, 22.2995, 97.1401**, and the grayscale version is **72.8459, 76.6396, 83.4605**.

A 20% lighter version of the original color is **83.1716, 95.2486, 46.3490**, and **34.9282, 47.9335, 9.6967** is the 20% darker color. If you saturate the color by 10%, you get **63.8505, 85.8484, 20.1349**, and if you desaturate by 10%, it is **70.1579, 88.8064, 33.6952**.

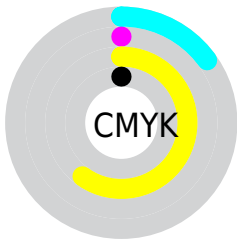
# Distribution



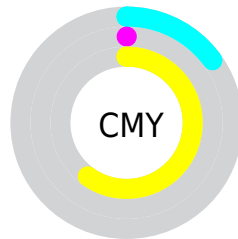
- Red (85%)
- Green (100%)
- Blue (40%)



- Red (40%)
- Yellow (100%)
- Blue (55%)



- Cyan (15%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)




- Cyan (15%)
- Magenta (0%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.7735, 87.2310, 25.8883 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 66.7735, 87.2310, 25.8883 by changing the saturation by 10% instead.





 66.7735, 87.2310,  
25.8883

 66.7735, 87.2310,  
25.8883


438.5833,  
518.9816, 295.8213

 49.1706, 65.6864,  
16.5151


 113.6474,  
143.4861, 54.0766

 34.9699, 48.0179,  
9.7311


 143.6491,  
178.9653, 73.7287

 23.8061, 33.8410,  
5.1178


 178.5144,  
219.8582, 97.6442

 15.3138, 22.7715,  
2.2566

 218.6088,  
266.5492, 126.2416

 9.1277, 14.4249,  
0.7067

264.2975,  
319.4226, 159.9395

 4.8823, 8.4168,  
0.0000

315.9459,

 2.2124, 4.3628,

378.8629, 199.1564

0.0000

373.9194,  
445.2545, 244.3108

■ 0.7493, 1.8785,  
0.0000

■ 0.0000, 0.5354,  
0.0000

■ 66.7735, 87.2310,  
25.8883

■ 66.7735, 87.2310,  
25.8883

■ 63.8505, 85.8484,  
20.1349

■ 70.1579, 88.8064,  
33.6952

■ 61.3507, 84.6434,  
16.2368

■ 74.0364, 90.5880,  
43.7221

■ 59.2293, 83.5980,  
13.9628

■ 78.4388, 92.5876,  
56.1226

■ 57.4135, 82.6828,  
12.9335

■ 83.3923, 94.8162,  
71.0357

■ 57.4132, 82.6826,  
12.9334

■ 88.9219, 97.2841,  
88.5897

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

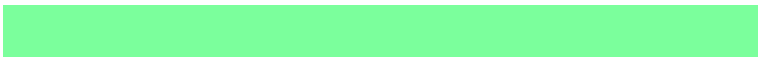
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.4332, 87.2310, 21.3966



66.7735, 87.2310, 25.8883



54.4821, 87.2310, 45.5065

# Triad

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



66.7735, 87.2310, 25.8883



63.0984, 87.2310, 221.7056



128.2842, 87.2310, 102.3138

# Complementary

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



66.7735, 87.2310, 25.8883



33.6179, 22.2995, 97.1401

# 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.



119.8250, 87.2310, 171.4133



66.7735, 87.2310, 25.8883



80.4378, 87.2310, 255.9235

# Square

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



66.7735, 87.2310, 25.8883



52.6160, 87.2310, 153.6963



101.4579, 87.2310, 234.5322



123.0461, 87.2310, 53.5218



# Rectangle

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



66.7735, 87.2310, 25.8883



50.4713, 87.2310, 70.9362



101.4579, 87.2310, 234.5322



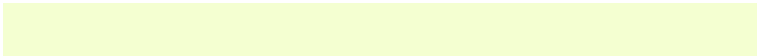
126.9172, 87.2310, 123.9216

# Sweetspot

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



66.7736, 87.2310, 25.8895



84.4504, 95.2899, 74.3283



52.6845, 40.3114, 17.5757



17.7477, 20.2490, 14.8905



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.



66.7736, 87.2310, 25.8895



63.3175, 85.5935, 19.2128



49.4522, 78.3015, 25.0789



19.0947, 20.8502, 19.1624



30.1430, 43.2774, 6.7647



3.0343, 4.2650, 0.6633



# Inverse Universe

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



33.6179, 22.2995, 97.1401



27.6651, 15.5596, 96.1529



50.5921, 31.0501, 97.9345



17.4256, 17.5956, 22.7278



10.6271, 4.3889, 49.7216

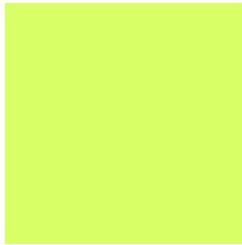


1.1292, 0.4760, 4.8456



# Previews

## White Background



This preview shows how the XYZ color 66.7735, 87.2310, 25.8883 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 66.7735, 87.2310, 25.8883 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 66.7735, 87.2310, 25.8883**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.7735, 87.2310, 25.8883.



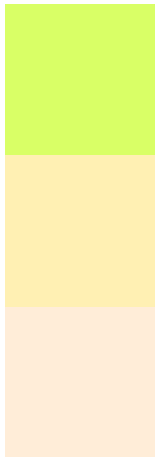
This preview shows how white text looks on a background with the XYZ color 66.7735, 87.2310,



# 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

66.7735, 87.2310, 25.8883

### Protanopia

80.5368, 86.8348, 55.1639

### Deuteranopia

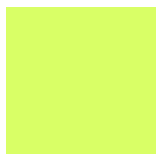
83.9189, 86.7862, 77.2942



## Tritanopia

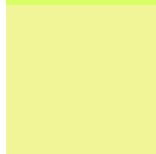
83.5086, 86.7859, 106.9577

# Trichromacy



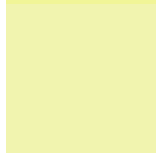
## Original Color

66.7735, 87.2310, 25.8883



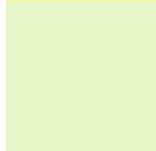
## Protanomaly

74.5139, 86.2400, 41.9968



## Deuteranomaly

76.3642, 86.4973, 53.2283



## Tritanomaly

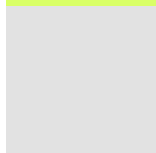
75.2743, 86.0864, 66.6818

# Monochromacy



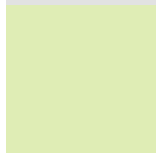
## Original Color

66.7735, 87.2310, 25.8883



## Achromatopsia

72.2879, 76.0525, 82.8211



## Achromatomaly

69.0561, 79.5925, 55.4393

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.7735, 87.2310, 25.8883 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(217, 255, 102)` looks like.

```
.text, #text, p{  
    color:rgb(217, 255, 102)  
}
```

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(217, 255, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 255, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 66.7735, 87.2310, 25.8883 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(217, 255, 102) }
```



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

```
.border{ border-color:rgb(217, 255, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 255, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 255, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 255, 102);  
box-shadow:4px 4px 4px 4px rgb(217, 255,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.7735, 87.2310, 25.8883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 255, 102) }
```

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

```
.background{ background-color: rgb(217,  
255, 102) }
```

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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