

# Converting Colors

XYZ(66.8223, 87.4213, 18.4299)

Have a look what the booklet for  
XYZ(66.8223, 87.4213, 18.4299)  
contains.

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# Color

**XYZ(66.8676, 87.4429,  
18.5081)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEFF42
RGB	222, 255, 66
RGB Percent	87%, 100%, 26%
CMY	0.1294, 0.0000, 0.7411
CMYK	0.13, 0.00, 0.74, 0.00
HSL	70°, 100%, 63%
HSV	70°, 74%, 100%
XYZ	66.8676, 87.4429, 18.5081
YIQ	223.5870, 41.0010, -65.7750

# Conversions

## Conversions Part 2

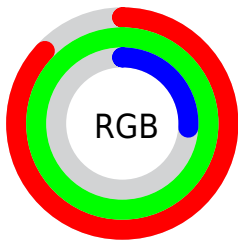
Format	Color
<a href="#">RYB</a>	<a href="#">66, 255, 99</a>
Decimal	<a href="#">14614338</a>
CIELab	<a href="#">94.93, -33.43, 80.46</a>
CIELCh	<a href="#">95, 87.132, 112.564</a>
Yxy	<a href="#">87.4429, 0.3869, 0.5060</a>
Android (android.graphics.Color)	<a href="#">4292804418 (0xFFDEFF42)</a>
YUV	<a href="#">223.5870, -77.6904, -1.3918</a>
Hunter-Lab	<a href="#">93.5109, -36.0027, 53.7227</a>

# Details

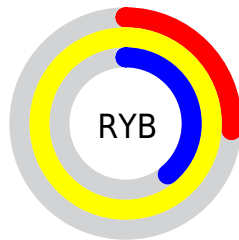
The XYZ color **66.8676, 87.4429, 18.5081** is a light color, and the websafe version is hex **CCFF33**. The color can be described as light washed yellow. A complement of this color would be **25.1451, 13.7704, 95.9404**, and the grayscale version is **71.0728, 74.7741, 81.4290**.

A 20% lighter version of the original color is **80.8308, 94.3123, 34.0225**, and **35.2983, 48.1747, 7.4382** is the 20% darker color. If you saturate the color by 10%, you get **64.9298, 86.5124, 15.3294**, and if you desaturate by 10%, it is **69.1763, 88.5261, 23.4539**.

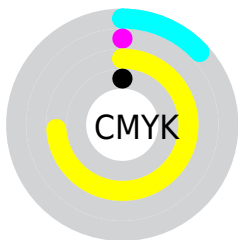
# Distribution



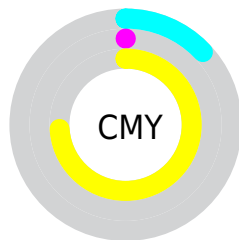
- Red (87%)
- Green (100%)
- Blue (26%)



- Red (26%)
- Yellow (100%)
- Blue (39%)



- Cyan (13%)
- Magenta (0%)
- Yellow (74%)
- Black (0%)



- Cyan (13%)
- Magenta (0%)
- Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8676, 87.4429, 18.5081 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 66.8676, 87.4429, 18.5081 by changing the saturation by 10% instead.



66.8676, 87.4429,  
18.5081

66.8676, 87.4429,  
18.5081

438.9132,  
519.6771, 256.0512

49.2473, 65.8618,  
11.1422

113.7815,  
143.7813, 41.7268

35.0311, 48.1602,  
6.0472

143.8059,  
179.3074, 58.4167

23.8534, 33.9538,  
2.8045

178.6957,  
220.2506, 79.0516

15.3491, 22.8581,  
0.9957

218.8162,  
266.9953, 104.0501

9.1527, 14.4888,  
0.0000

264.5329,  
319.9259, 133.8308

4.8988, 8.4614,  
0.0000

316.2111,

2.2221, 4.3916,

379.4268, 168.8122

0.0000

374.2161,  
445.8824, 209.4128

0.7544, 1.8949,  
0.0000

0.0000, 0.5453,  
0.0000

66.8676, 87.4429,  
18.5081

66.8676, 87.4429,  
18.5081

64.9298, 86.5124,  
15.3294

69.1763, 88.5261,  
23.4539

63.3142, 85.7148,  
13.6598

71.8956, 89.7776,  
30.3714

62.4735, 85.2913,  
13.1702

75.0598, 91.2113,  
39.4409

78.6993, 92.8395,  
50.8213

■ 82.8418, 94.6731,  
64.6568

■ 87.5127, 96.7223,  
81.0798

■ 92.7355, 98.9967,  
100.2130

■ 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.



89.1323, 87.4429, 15.6893



66.8676, 87.4429, 18.5081



52.0017, 87.4429, 35.9918

# Triad

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



66.8676, 87.4429, 18.5081



58.4380, 87.4429, 240.4241



136.7996, 87.4429, 113.0649

# Complementary

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



66.8676, 87.4429, 18.5081



25.1451, 13.7704, 95.9404

# 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.



124.6633, 87.4429, 198.2433



66.8676, 87.4429, 18.5081



77.3688, 87.4429, 291.3174

# Square

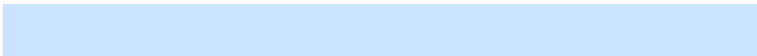
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



66.8676, 87.4429, 18.5081



47.8173, 87.4429, 154.3805



101.7944, 87.4429, 273.0269



132.5288, 87.4429, 53.4982



# Rectangle

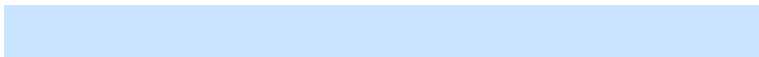
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



66.8676, 87.4429, 18.5081



46.8620, 87.4429, 61.2985



101.7944, 87.4429, 273.0269



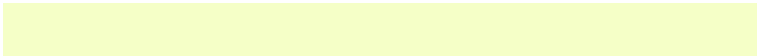
134.4355, 87.4429, 139.7686

# Sweetspot

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



66.8677, 87.4430, 18.5093



83.7847, 95.0881, 67.9099



46.5452, 30.2967, 8.5500



17.6755, 20.2392, 13.6472



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.



66.8677, 87.4430, 18.5093



64.1038, 86.1075, 14.3435



45.7976, 76.5809, 17.5232



19.2317, 20.9209, 19.1688



32.7575, 44.6252, 6.8870



3.2675, 4.3852, 0.6742



# Inverse Universe

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



25.1451, 13.7704, 95.9404



20.8280, 9.2703, 95.2993



41.7375, 22.3241, 96.7169



17.2986, 17.5302, 22.7219



10.0714, 4.1025, 49.6956

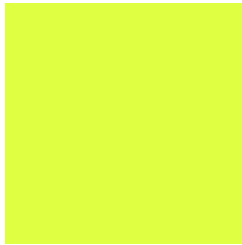


1.0581, 0.4394, 4.8423



# Previews

## White Background



This preview shows how the XYZ color 66.8676, 87.4429, 18.5081 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 66.8676, 87.4429, 18.5081 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 66.8676, 87.4429, 18.5081

## Background



This preview shows how black text looks on a background with the XYZ color 66.8676, 87.4429, 18.5081.



This preview shows how white text looks on a background with the XYZ color 66.8676, 87.4429,



# Color Blindness Simulation

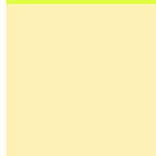
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



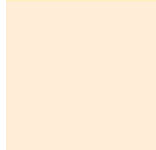
### Original Color

66.8676, 87.4429, 18.5081



### Protanopia

80.6383, 86.8755, 55.6986



### Deuteranopia

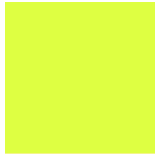
83.9189, 86.7862, 77.2942



## Tritanopia

84.9002, 87.0698, 106.9392

# Trichromacy



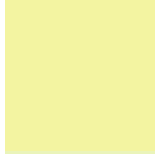
## Original Color

66.8676, 87.4429, 18.5081



## Protanomaly

74.2748, 86.2236, 37.1542



## Deuteranomaly

75.7459, 86.3293, 46.3892



## Tritanomaly

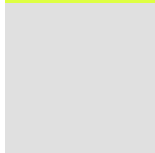
75.1453, 85.7390, 59.0431

# Monochromacy



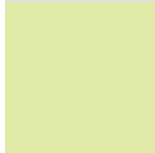
## Original Color

66.8676, 87.4429, 18.5081



## Achromatopsia

70.8507, 74.5404, 81.1745



## Achromatomaly

67.1148, 77.8947, 48.0571

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8676, 87.4429, 18.5081 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(222, 255, 66)` looks like.

```
.text, #text, p{  
    color:rgb(222, 255, 66)  
}
```

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(222, 255, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 255, 66) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8676, 87.4429, 18.5081 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(222, 255, 66) }
```



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

```
.border{ border-color:rgb(222, 255, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 255, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 255, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 255, 66);  
box-shadow:4px 4px 4px 4px rgb(222, 255,  
66) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8676, 87.4429, 18.5081 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 255, 66) }
```

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

```
.background{ background-color: rgb(222,  
255, 66) }
```

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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