

# Converting Colors

XYZ(66.8365, 87.3602, 21.5232)

Have a look what the booklet for  
XYZ(66.8365, 87.3602, 21.5232)  
contains.

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# Color

**XYZ(66.8365, 87.3602,  
21.5232)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCFF53
RGB	220, 255, 83
RGB Percent	86%, 100%, 33%
CMY	0.1373, 0.0000, 0.6745
CMYK	0.14, 0.00, 0.67, 0.00
HSL	72°, 100%, 66%
HSV	72°, 67%, 100%
XYZ	66.8365, 87.3602, 21.5232
YIQ	224.9270, 34.3520, -60.9120

# Conversions

## Conversions Part 2

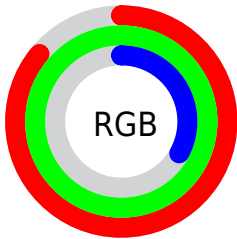
Format	Color
<a href="#">RYB</a>	<a href="#">83, 255, 118</a>
Decimal	<a href="#">14483283</a>
CIELab	<a href="#">94.89, -33.35, 74.69</a>
CIElCh	<a href="#">95, 81.794, 114.064</a>
Yxy	<a href="#">87.3602, 0.3804, 0.4972</a>
Android (android.graphics.Color)	<a href="#">4292673363</a> ( <a href="#">0xFFDCFF53</a> )
YUV	<a href="#">224.9270, -69.9700, -4.3210</a>
Hunter-Lab	<a href="#">93.4667, -35.9242, 51.7736</a>

# Details

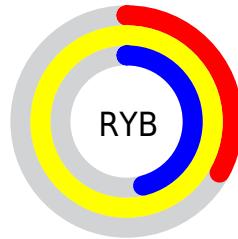
The XYZ color **66.8365, 87.3602, 21.5232** is a light color, and the websafe version is hex **CCFF66**. The color can be described as light muted yellow. A complement of this color would be **28.6159, 17.2595, 96.4309**, and the grayscale version is **71.9850, 75.7338, 82.4741**.

A 20% lighter version of the original color is **81.8077, 94.7031, 39.1671**, and **34.9030, 47.9696, 7.4769** is the 20% darker color. If you saturate the color by 10%, you get **64.4798, 86.2388, 17.1847**, and if you desaturate by 10%, it is **69.6039, 88.6514, 27.7719**.

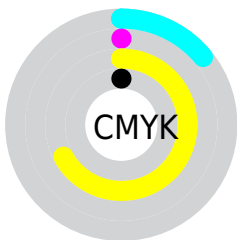
# Distribution



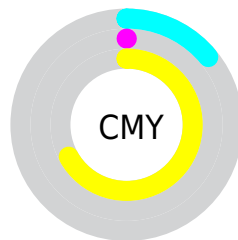
- Red (86%)
- Green (100%)
- Blue (33%)



- Red (33%)
- Yellow (100%)
- Blue (46%)



- Cyan (14%)
- Magenta (0%)
- Yellow (67%)
- Black (0%)




- Cyan (14%)
- Magenta (0%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8365, 87.3602, 21.5232 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 66.8365, 87.3602, 21.5232 by changing the saturation by 10% instead.





 66.8365, 87.3602,  
21.5232

 66.8365, 87.3602,  
21.5232


438.8042,  
519.4057, 272.9179

 49.2220, 65.7933,  
13.3120


 113.7372,  
143.6661, 46.8487

 35.0109, 48.1047,  
7.5105


 143.7541,  
179.1739, 64.8001

 23.8378, 33.9098,  
3.7001


 178.6358,  
220.0975, 86.8354

 15.3374, 22.8243,  
1.4623

 218.7477,  
266.8212, 113.3730

 9.1444, 14.4638,  
0.1896

264.4551,  
319.7295, 144.8315

 4.8933, 8.4440,  
0.0000

316.1234,

 2.2189, 4.3803,

379.2068, 181.6295

0.0000

374.1180,  
445.6374, 224.1854

■ 0.7527, 1.8885,  
0.0000

■ 0.0000, 0.5415,  
0.0000

■ 66.8365, 87.3602,  
21.5232

■ 66.8365, 87.3602,  
21.5232

■ 64.4798, 86.2388,  
17.1847

■ 69.6039, 88.6514,  
27.7719

■ 62.4913, 85.2704,  
14.5321

■ 72.8180, 90.1270,  
36.1148

■ 60.8159, 84.4327,  
13.2786

■ 76.5105, 91.7996,  
46.7182

■ 60.4179, 84.2316,  
13.0740

■ 80.7101, 93.6809,  
59.7306

85.4429, 95.7814,  
75.2882

90.7334, 98.1107,  
93.5166

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.



87.5204, 87.3602, 18.0342



66.8365, 87.3602, 21.5232



53.0804, 87.3602, 39.9560

# Triad

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



66.8365, 87.3602, 21.5232



60.4442, 87.3602, 232.1586



133.0581, 87.3602, 108.3135

# Complementary

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



66.8365, 87.3602, 21.5232



28.6159, 17.2595, 96.4309

# 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.



122.5503, 87.3602, 186.2634



66.8365, 87.3602, 21.5232



78.7021, 87.3602, 275.5460

# Square

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



66.8365, 87.3602, 21.5232



49.8755, 87.3602, 154.0877



101.6556, 87.3602, 255.8073



128.3547, 87.3602, 53.5201



# Rectangle

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



66.8365, 87.3602, 21.5232



48.4189, 87.3602, 65.3837



101.6556, 87.3602, 255.8073



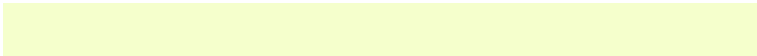
131.1370, 87.3602, 132.7320

# Sweetspot

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



66.8365, 87.3602, 21.5244



84.1833, 95.2241, 71.0699



49.2101, 34.7017, 12.2893



17.7306, 20.2541, 14.2598



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.



66.8365, 87.3602, 21.5244



63.7339, 85.8783, 16.0623



47.2497, 77.2628, 20.6077



19.1779, 20.8931, 19.1663



31.6962, 44.0781, 6.8374



3.1734, 4.3367, 0.6698



# Inverse Universe

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



28.6159, 17.2595, 96.4309



23.3890, 11.5689, 95.6080



45.8819, 26.1604, 97.2390



17.3482, 17.5557, 22.7242



10.2652, 4.2024, 49.7047

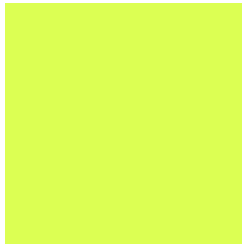


1.0839, 0.4527, 4.8435



# Previews

## White Background



This preview shows how the XYZ color 66.8365, 87.3602, 21.5232 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

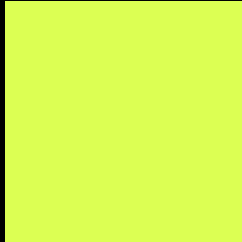
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.8365, 87.3602, 21.5232 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 66.8365, 87.3602, 21.5232**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.8365, 87.3602, 21.5232.



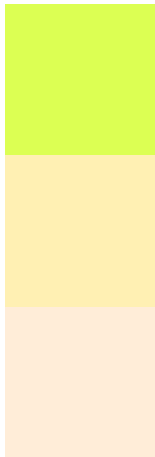
This preview shows how white text looks on a background with the XYZ color 66.8365, 87.3602,



# 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

66.8365, 87.3602, 21.5232

### Protanopia

80.5368, 86.8348, 55.1639

### Deuteranopia

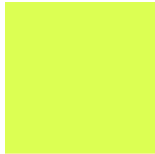
83.9189, 86.7862, 77.2942



## Tritanopia

84.5131, 87.3037, 107.0047

# Trichromacy



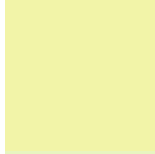
## Original Color

66.8365, 87.3602, 21.5232



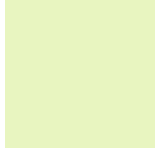
## Protanomaly

74.3044, 86.1957, 39.1067



## Deuteranomaly

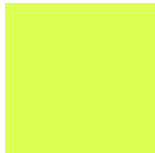
76.0365, 86.4058, 49.7162



## Tritanomaly

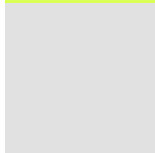
75.4455, 86.2664, 62.5438

# Monochromacy



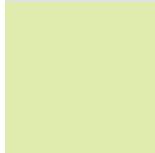
## Original Color

66.8365, 87.3602, 21.5232



## Achromatopsia

71.5672, 75.2942, 81.9954



## Achromatomaly

67.9697, 78.6960, 51.1426

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8365, 87.3602, 21.5232 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(220, 255, 83)` looks like.

```
.text, #text, p{  
    color:rgb(220, 255, 83)  
}
```

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(220, 255, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 255, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8365, 87.3602, 21.5232 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(220, 255, 83) }
```



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

```
.border{ border-color:rgb(220, 255, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 255, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 255, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 255, 83);  
box-shadow:4px 4px 4px 4px rgb(220, 255,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8365, 87.3602, 21.5232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 255, 83) }
```

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

```
.background{ background-color: rgb(220,  
255, 83) }
```

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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