

# Converting Colors

XYZ(64.6536, 85.8996, 36.5651)

Have a look what the booklet for  
XYZ(64.6536, 85.8996, 36.5651)  
contains.

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# Color

**XYZ(64.5611, 85.8541,  
36.4613)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAFF88
RGB	202, 255, 136
RGB Percent	79%, 100%, 53%
CMY	0.2078, 0.0000, 0.4667
CMYK	0.21, 0.00, 0.47, 0.00
HSL	87°, 100%, 77%
HSV	87°, 47%, 100%
XYZ	64.5611, 85.8541, 36.4613
YIQ	225.5870, 6.6110, -48.2450

# Conversions

## Conversions Part 2

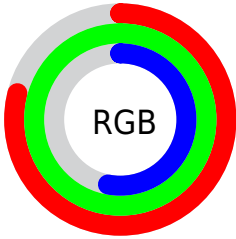
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 255, 189
Decimal	13303688
CIELab	94.25, -35.69, 51.20
CIElCh	94, 62.415, 124.881
Yxy	85.8541, 0.3455, 0.4594
Android (android.graphics.Color)	4291493768 (0xFFCAFF88)
YUV	225.5870, -44.1664, -20.6858
Hunter-Lab	92.6575, -37.7769, 41.5293

# Details

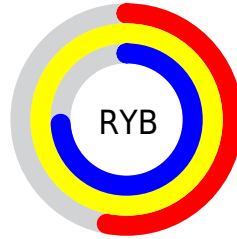
The XYZ color **64.5611, 85.8541, 36.4613** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **47.8416, 35.6484, 98.9670**, and the grayscale version is **72.2954, 76.0604, 82.8298**.

A 20% lighter version of the original color is **86.4040, 96.5416, 63.3706**, and **33.6095, 47.1237, 15.5080** is the 20% darker color. If you saturate the color by 10%, you get **59.9982, 83.6869, 27.8869**, and if you desaturate by 10%, it is **69.7820, 88.3107, 47.3191**.

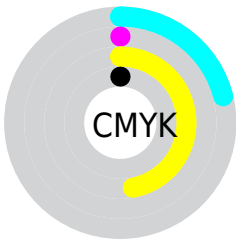
# Distribution



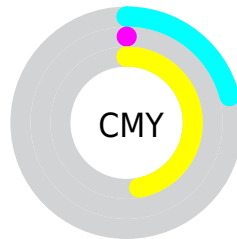
- Red (79%)
- Green (100%)
- Blue (53%)



- Red (53%)
- Yellow (100%)
- Blue (74%)



- Cyan (21%)
- Magenta (0%)
- Yellow (47%)
- Black (0%)




- Cyan (21%)
- Magenta (0%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.5611, 85.8541, 36.4613 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 64.5611, 85.8541, 36.4613 by changing the saturation by 10% instead.




 64.5611, 85.8541,  
36.4613

 64.5611, 85.8541,  
36.4613


430.7833,  
514.4500, 346.0705


 47.3687, 64.5473,  
24.4982


 110.4878,  
141.5659, 70.9205

 33.5364, 47.0941,  
15.4880


 139.9529,  
176.7397, 94.2537

 22.6988, 33.1101,  
9.0121


 174.2394,  
217.3046, 122.2139

 14.4908, 22.2108,  
4.6522

213.7129,  
263.6450, 155.2198

 8.5468, 14.0119,  
1.9895

258.7387,  
316.1454, 193.6899

 4.5015, 8.1289,  
0.5488

309.6821,

 1.9896, 4.1775,

375.1901, 238.0427

0.0000

366.9085,  
441.1635, 288.6967

0.6281, 1.7734,  
0.0000

0.0000, 0.4705,  
0.0000

64.5611, 85.8541,  
36.4613

64.5611, 85.8541,  
36.4613

59.9982, 83.6869,  
27.8869

69.7820, 88.3107,  
47.3191

56.0563, 81.7937,  
21.4283

75.6926, 91.0698,  
60.6043

52.6957, 80.1580,  
16.9011

82.3234, 94.1442,  
76.4535

49.8698, 78.7605,  
14.0875

89.7026, 97.5456,  
94.9918

■ 47.5213, 77.5778, 95.0500, 100.0000,  
12.7136 108.9000

■ 46.8172, 77.2202,  
12.4375

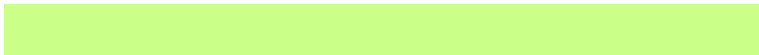
# Harmonies

## Analogous

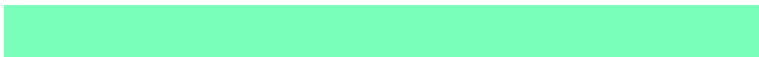
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.8966, 85.8541, 28.4747



64.5611, 85.8541, 36.4613



55.8146, 85.8541, 59.5863

# Triad

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



64.5611, 85.8541, 36.4613



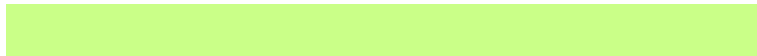
68.6996, 85.8541, 204.0977



118.0130, 85.8541, 85.8629

# Complementary

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



64.5611, 85.8541, 36.4613



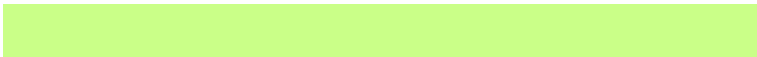
47.8416, 35.6484, 98.9670

# 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.



114.3127, 85.8541, 138.2718



64.5611, 85.8541, 36.4613



84.3680, 85.8541, 218.5192

# Square

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



64.5611, 85.8541, 36.4613



57.9653, 85.8541, 156.6467



101.4045, 85.8541, 191.1944

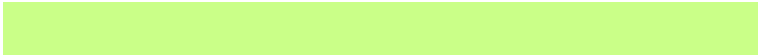


110.9219, 85.8541, 50.0903



# Rectangle

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



64.5611, 85.8541, 36.4613



53.5840, 85.8541, 85.5023



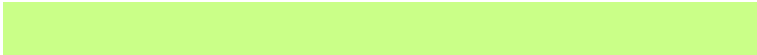
101.4045, 85.8541, 191.1944



117.9981, 85.8541, 101.9402

# Sweetspot

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



64.5614, 85.8543, 36.4626



84.2160, 95.0184, 81.1268



63.5753, 58.8200, 31.2964



17.6969, 20.1860, 16.5516



0.0000, 0.0000, 0.0000

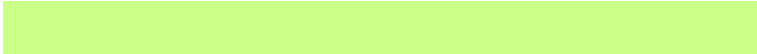


20.3446, 21.4041, 23.3091

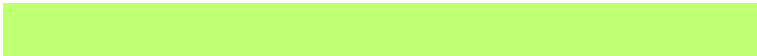


# Same Dimension

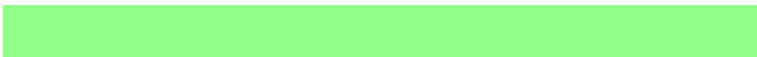
The Same Dimension uses a secret algorithm to generate beautiful new colors.



64.5614, 85.8543, 36.4626



60.2821, 83.8225, 28.3898



51.6947, 79.2212, 35.8604



18.7350, 20.6648, 19.1456



24.6375, 40.4392, 6.5070



2.5246, 4.0023, 0.6395



# Inverse Universe

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



47.8416, 35.6484, 98.9670



41.7258, 28.0595, 97.8246



65.2360, 44.6156, 99.7811



17.7710, 17.7737, 22.7440



13.1942, 5.7123, 49.8418

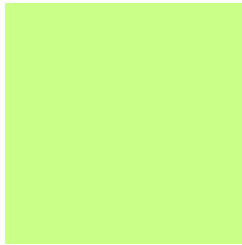


1.4080, 0.6198, 4.8587



# Previews

## White Background



This preview shows how the XYZ color 64.5611, 85.8541, 36.4613 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

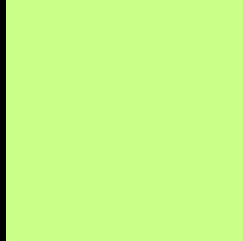
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.5611, 85.8541, 36.4613 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

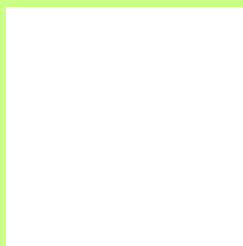
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.5611, 85.8541, 36.4613**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.5611, 85.8541, 36.4613.



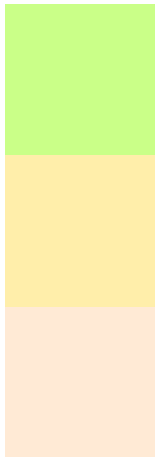
This preview shows how white text looks on a background with the XYZ color 64.5611, 85.8541,



# 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

64.5611, 85.8541, 36.4613

### Protanopia

79.0702, 85.3114, 50.3295

### Deuteranopia

82.6731, 84.9097, 74.9827



## **Tritanopia**

79.9506, 85.3875, 106.8753

# Trichromacy



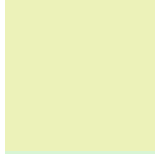
## Original Color

64.5611, 85.8541, 36.4613



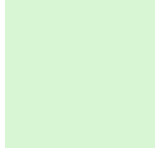
## Protanomaly

73.1143, 85.0029, 44.9014



## Deuteranomaly

75.1012, 84.8399, 58.3164



## Tritanomaly

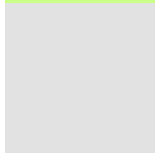
72.8550, 84.6572, 74.7880

# Monochromacy



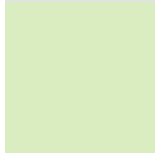
## Original Color

64.5611, 85.8541, 36.4613



## Achromatopsia

72.2879, 76.0525, 82.8211



## Achromatomaly

68.5251, 79.1703, 62.1218

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.5611, 85.8541, 36.4613 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(202, 255, 136)` looks like.

```
.text, #text, p{  
    color:rgb(202, 255, 136)  
}
```

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(202, 255, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 255, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 64.5611, 85.8541, 36.4613 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(202, 255, 136) }
```



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

```
.border{ border-color:rgb(202, 255, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 255, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 255, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 255, 136);  
box-shadow:4px 4px 4px 4px rgb(202, 255,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.5611, 85.8541, 36.4613 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 255, 136) }
```

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

```
.background{ background-color: rgb(202,  
255, 136) }
```

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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