

# Converting Colors

XYZ(66.8039, 86.8595, 43.3816)

Have a look what the booklet for  
XYZ(66.8039, 86.8595, 43.3816)  
contains.

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# Color

**XYZ(66.6866, 86.7990,  
43.3761)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	<a href="#">C D F F 9 9</a>
RGB	<a href="#">205, 255, 153</a>
RGB Percent	<a href="#">80%, 100%, 60%</a>
CMY	<a href="#">0.1961, 0.0000, 0.4000</a>
<a href="#">CMYK</a>	<a href="#">0.20, 0.00, 0.40, 0.00</a>
HSL	<a href="#">89°, 100%, 80%</a>
HSV	<a href="#">89°, 40%, 100%</a>
XYZ	<a href="#">66.6866, 86.7990, 43.3761</a>
YIQ	<a href="#">228.4220, 2.9420, -42.3220</a>

# Conversions

## Conversions Part 2

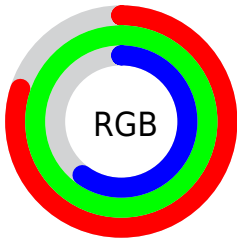
Format	Color
<a href="#">RYB</a>	<a href="#">153, 255, 203</a>
Decimal	<a href="#">13500313</a>
CIELab	<a href="#">94.65, -32.66, 43.62</a>
CIELCh	<a href="#">95, 54.491, 126.823</a>
Yxy	<a href="#">86.7990, 0.3387, 0.4409</a>
Android (android.graphics.Color)	<a href="#">4291690393</a> ( <a href="#">0xFFCDDFF9</a> )
YUV	<a href="#">228.4220, -37.1830, -20.5411</a>
Hunter-Lab	<a href="#">93.1660, -35.2732, 37.6120</a>

# Details

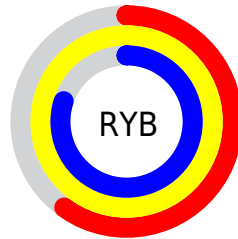
The XYZ color **66.6866, 86.7990, 43.3761** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **54.0710, 42.7003, 99.9999**, and the grayscale version is **74.3139, 78.1840, 85.1424**.

A 20% lighter version of the original color is **88.3852, 97.3341, 73.8035**, and **34.8888, 47.6978, 19.4244** is the 20% darker color. If you saturate the color by 10%, you get **61.4887, 84.3373, 33.2889**, and if you desaturate by 10%, it is **72.6108, 89.5831, 55.8490**.

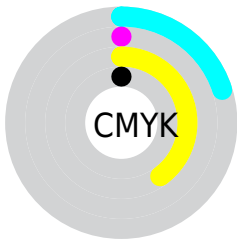
# Distribution



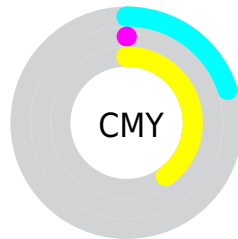
- Red (80%)
- Green (100%)
- Blue (60%)



- Red (60%)
- Yellow (100%)
- Blue (80%)



- Cyan (20%)
- Magenta (0%)
- Yellow (40%)
- Black (0%)




- Cyan (20%)
- Magenta (0%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.6866, 86.7990, 43.3761 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 66.6866, 86.7990, 43.3761 by changing the saturation by 10% instead.





 66.6866, 86.7990,  
43.3761


 66.6866, 86.7990,  
43.3761


438.2784,  
517.5622, 376.1228

 49.0997, 65.3289,  
29.8467


 113.5235,  
142.8839, 81.5705

 34.9135, 47.7278,  
19.4712


 143.5043,  
178.2676, 107.0727

 23.7624, 33.6114,  
11.8310


178.3470,  
219.0578, 137.4029

 15.2813, 22.5952,  
6.5076

218.4172,  
265.6391, 172.9796

 9.1046, 14.2949,  
3.0824

264.0800,  
318.3957, 214.2214

 4.8671, 8.3261,  
1.1368

315.7009,

 2.2035, 4.3043,

377.7122, 261.5468

0.0000

373.6453,  
443.9729, 315.3744

0.7446, 1.8452,  
0.0000

0.0000, 0.5151,  
0.0000

66.6866, 86.7990,  
43.3761

66.6866, 86.7990,  
43.3761

61.4887, 84.3373,  
33.2889

72.6108, 89.5831,  
55.8490

56.9808, 82.1827,  
25.4308

79.2928, 92.7029,  
70.8428

53.1242, 80.3188,  
19.6326

86.7634, 96.1713,  
88.4874

49.8751, 78.7276,  
15.6995

95.0500, 100.0000,  
108.9000

■ 47.1821, 77.3874,  
13.3989

■ 44.9658, 76.2658,  
12.3509

■ 44.9656, 76.2656,  
12.3508

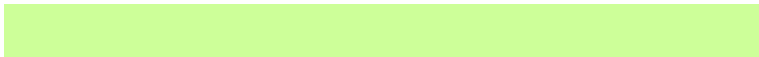
# Harmonies

## Analogous

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



79.1861, 86.7990, 34.7492



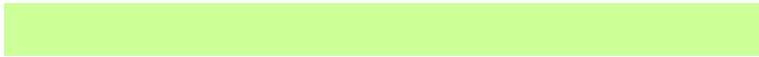
66.6866, 86.7990, 43.3761



59.1401, 86.7990, 66.0855

# Triad

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



66.6866, 86.7990, 43.3761



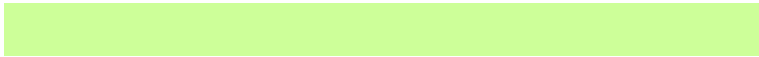
71.8638, 86.7990, 190.2128



113.8813, 86.7990, 85.2117

# Complementary

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



66.6866, 86.7990, 43.3761



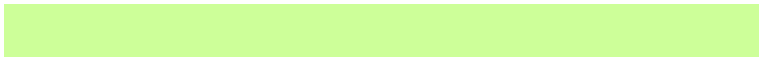
54.0710, 42.7003, 99.9999

# 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.



111.3198, 86.7990, 130.0990



66.6866, 86.7990, 43.3761



85.9048, 86.7990, 199.8765

# Square

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



66.6866, 86.7990, 43.3761



61.8718, 86.7990, 151.8275



100.6340, 86.7990, 175.2855

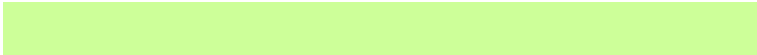


107.2681, 86.7990, 53.8083



# Rectangle

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



66.6866, 86.7990, 43.3761



57.3651, 86.7990, 90.0916



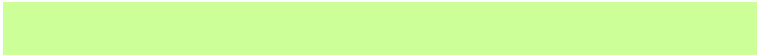
100.6340, 86.7990, 175.2855



114.0758, 86.7990, 99.0692

# Sweetspot

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



66.6870, 86.7992, 43.3774



85.2040, 95.4488, 84.7385



68.1813, 65.9427, 39.2729



18.0230, 20.3307, 17.6264



0.0000, 0.0000, 0.0000

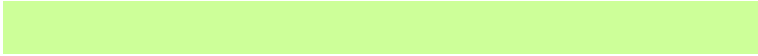


20.3446, 21.4041, 23.3091

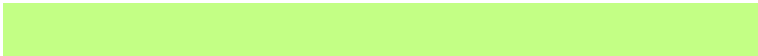


# Same Dimension

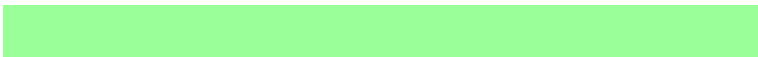
The Same Dimension uses a secret algorithm to generate beautiful new colors.



66.6870, 86.7992, 43.3774



62.4714, 84.8044, 35.1220



54.9706, 80.7592, 42.8291



18.6545, 20.6233, 19.1418



23.6684, 39.9396, 6.4617



2.4306, 3.9538, 0.6351



# Inverse Universe

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



54.0710, 42.7003, 99.9999



48.2736, 35.1708, 98.8521



70.0590, 50.9424, 100.7481



17.8509, 17.8149, 22.7477



14.0222, 6.1392, 49.8805

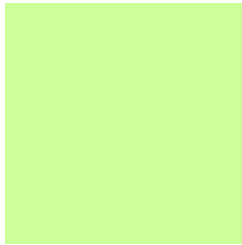


1.4910, 0.6625, 4.8626



# Previews

## White Background



This preview shows how the XYZ color 66.6866, 86.7990, 43.3761 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

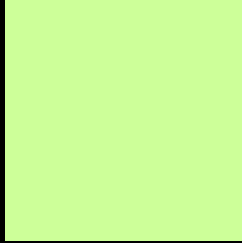
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.6866, 86.7990, 43.3761 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

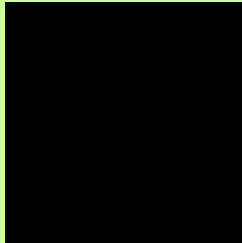
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

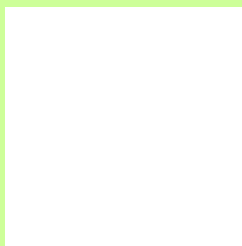
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 66.6866, 86.7990, 43.3761**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.6866, 86.7990, 43.3761.



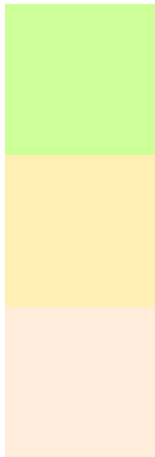
This preview shows how white text looks on a background with the XYZ color 66.6866, 86.7990,

43.3761.

# 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

66.6866, 86.7990, 43.3761

### Protanopia

80.1424, 86.2074, 54.5352

### Deuteranopia

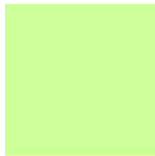
83.8903, 86.3129, 78.5682



## **Tritanopia**

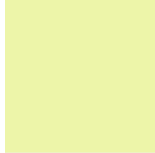
80.8693, 86.2993, 107.0029

# Trichromacy



## Original Color

66.6866, 86.7990, 43.3761



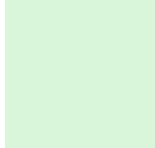
## Protanomaly

74.7389, 86.1739, 50.2302



## Deuteranomaly

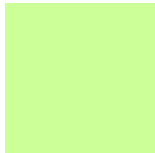
76.7132, 86.0008, 63.5955



## Tritanomaly

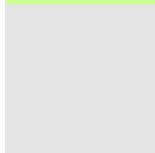
74.5241, 85.8789, 78.9781

# Monochromacy



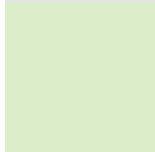
## Original Color

66.6866, 86.7990, 43.3761



## Achromatopsia

73.7419, 77.5822, 84.4870



## Achromatomaly

70.6324, 80.5818, 67.0895

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.6866, 86.7990, 43.3761 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(205, 255, 153)` looks like.

```
.text, #text, p{  
    color:rgb(205, 255, 153)  
}
```

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(205, 255, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 255, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 66.6866, 86.7990, 43.3761 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(205, 255, 153) }
```



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

```
.border{ border-color:rgb(205, 255, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 255, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 255, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 255, 153);  
box-shadow:4px 4px 4px 4px rgb(205, 255,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.6866, 86.7990, 43.3761 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 255, 153) }
```

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

```
.background{ background-color: rgb(205,  
255, 153) }
```

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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