

# Converting Colors

XYZ(80.3400, 100.0000,  
45.8921)

Have a look what the booklet for  
XYZ(80.3400, 100.0000, 45.8921)  
contains.

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# Color

**XYZ(76.2685, 91.7194,  
44.6942)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECFF9B
RGB	236, 255, 155
RGB Percent	93%, 100%, 61%
CMY	0.0745, 0.0000, 0.3921
CMYK	0.07, 0.00, 0.39, 0.00
HSL	71°, 100%, 80%
HSV	71°, 39%, 100%
XYZ	76.2685, 91.7194, 44.6942
YIQ	237.9190, 20.7760, -35.1280

# Conversions

## Conversions Part 2

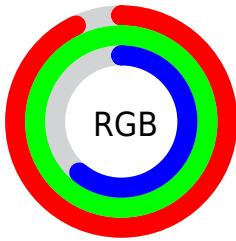
Format	Color
<a href="#">RYB</a>	<a href="#">155, 255, 174</a>
Decimal	<a href="#">15531931</a>
CIELab	<a href="#">96.71, -21.17, 45.68</a>
CIElCh	<a href="#">97, 50.350, 114.865</a>
Yxy	<a href="#">91.7194, 0.3586, 0.4313</a>
Android (android.graphics.Color)	<a href="#">4293722011 (0xFFE0FF9B)</a>
YUV	<a href="#">237.9190, -40.8791, -1.6830</a>
Hunter-Lab	<a href="#">95.7702, -25.4460, 39.3696</a>

# Details

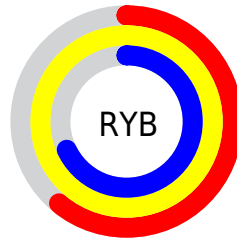
The XYZ color **76.2685, 91.7194, 44.6942** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **47.2280, 39.6626, 99.7742**, and the grayscale version is **81.4997, 85.7440, 93.3753**.

A 20% lighter version of the original color is **88.7579, 97.4831, 75.7661**, and **41.1828, 50.9312, 20.2305** is the 20% darker color. If you saturate the color by 10%, you get **72.7611, 90.1331, 34.5071**, and if you desaturate by 10%, it is **80.2724, 93.5094, 57.2674**.

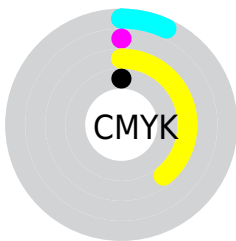
# Distribution



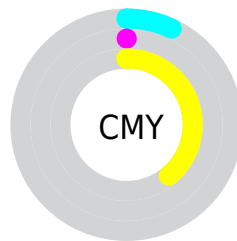
- Red (93%)
- Green (100%)
- Blue (61%)



- Red (61%)
- Yellow (100%)
- Blue (68%)



- Cyan (7%)
- Magenta (0%)
- Yellow (39%)
- Black (0%)




- Cyan (7%)
- Magenta (0%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 76.2685, 91.7194, 44.6942 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 76.2685, 91.7194, 44.6942 by changing the saturation by 10% instead.




 76.2685, 91.7194,  
44.6942


 76.2685, 91.7194,  
44.6942


471.1966,  
533.6083, 381.6576

 56.9505, 69.4076,  
30.8754


 127.0847,  
149.7244, 83.5749

 41.2055, 51.0437,  
20.2463


 159.3137,  
186.1864, 109.4739

 28.6681, 36.2434,  
12.3884

196.5770,  
228.1340, 140.2368

 18.9729, 24.6222,  
6.8830

239.2400,  
275.9514, 176.2821

 11.7546, 15.7958,  
3.3117

287.6682,  
330.0232, 218.0282

 6.6478, 9.3798,  
1.2559

342.2267,

 3.2872, 4.9897,

390.7336, 265.8938

0.0253

403.2811,  
458.4672, 320.2974

■ 1.3074, 2.2412,  
0.0000

■ 0.1887, 0.7423,  
0.0000

■ 76.2685, 91.7194,  
44.6942

■ 76.2685, 91.7194,  
44.6942

■ 72.7611, 90.1331,  
34.5071

■ 80.2724, 93.5094,  
57.2674

■ 69.7202, 88.7385,  
26.5511

■ 84.7985, 95.5133,  
72.3609

■ 67.1138, 87.5226,  
20.6589

■ 89.8715, 97.7410,  
90.1034

■ 64.9051, 86.4706,  
16.6381

95.0500, 100.0000,  
108.9000

■ 63.0502, 85.5651,  
14.2603

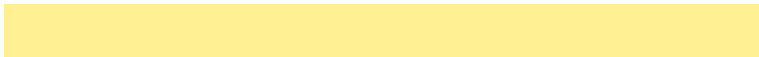
■ 61.4835, 84.7797,  
13.1811

■ 61.3664, 84.7206,  
13.1184

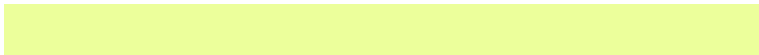
# Harmonies

## Analogous

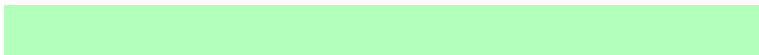
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.6252, 91.7194, 40.7859



76.2685, 91.7194, 44.6942



66.8352, 91.7194, 61.5216

# Triad

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



76.2685, 91.7194, 44.6942



72.4889, 91.7194, 177.7546



117.0565, 91.7194, 106.9773

# Complementary

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



76.2685, 91.7194, 44.6942



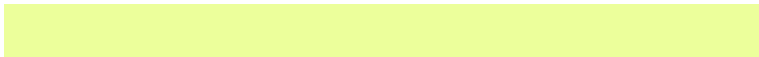
47.2280, 39.6626, 99.7742

# 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.



111.2757, 91.7194, 151.5362



76.2685, 91.7194, 44.6942



84.7729, 91.7194, 198.8545

# Square

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



76.2685, 91.7194, 44.6942



64.8234, 91.7194, 136.1940



99.0780, 91.7194, 188.1559

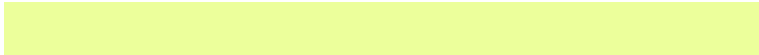


114.1550, 91.7194, 70.6523

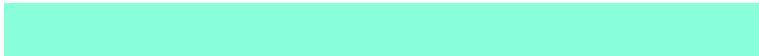


# Rectangle

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



76.2685, 91.7194, 44.6942



63.5414, 91.7194, 80.9385



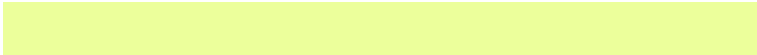
99.0780, 91.7194, 188.1559



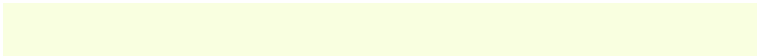
116.0474, 91.7194, 121.5376

# Sweetspot

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



76.2688, 91.7196, 44.6955



88.4021, 97.0975, 84.8882



62.1647, 53.6427, 38.0893



18.7774, 20.7196, 17.6617



0.0000, 0.0000, 0.0000

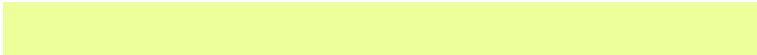


20.3446, 21.4041, 23.3091



# Same Dimension

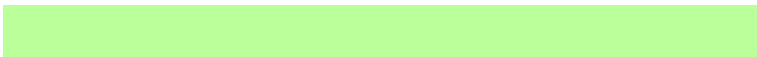
The Same Dimension uses a secret algorithm to generate beautiful new colors.



76.2688, 91.7196, 44.6955



73.4966, 90.4675, 36.5654



62.0892, 84.4097, 44.0319



19.2030, 20.9061, 19.1675



32.1860, 44.3306, 6.8603



3.2169, 4.3591, 0.6718



# Inverse Universe

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



47.2280, 39.6626, 99.7742



40.8201, 31.8510, 98.6041



60.3064, 46.4048, 100.3863



17.3250, 17.5438, 22.7231



10.1709, 4.1538, 49.7003

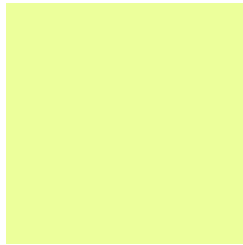


1.0715, 0.4463, 4.8429



# Previews

## White Background



This preview shows how the XYZ color 76.2685, 91.7194, 44.6942 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

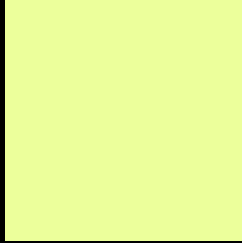
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 76.2685, 91.7194, 44.6942 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 76.2685, 91.7194, 44.6942**

## **Background**



This preview shows how black text looks on a background with the XYZ color 76.2685, 91.7194, 44.6942.



This preview shows how white text looks on a background with the XYZ color 76.2685, 91.7194, 44.6942.



# Color Blindness Simulation

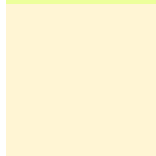
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



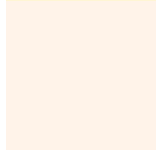
### Original Color

76.2685, 91.7194, 44.6942



### Protanopia

85.7761, 91.3183, 75.3927



### Deuteranopia

87.9986, 91.2444, 90.0647



## Tritanopia

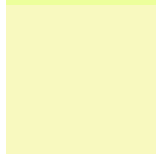
88.8120, 91.2776, 107.5452

# Trichromacy



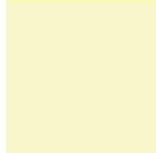
## Original Color

76.2685, 91.7194, 44.6942



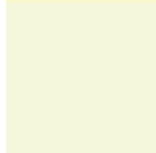
## Protanomaly

81.9911, 91.4694, 62.6242



## Deuteranomaly

82.9916, 90.8858, 70.9262



## Tritanomaly

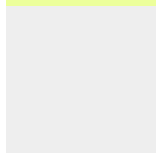
83.3552, 90.8691, 80.1640

# Monochromacy



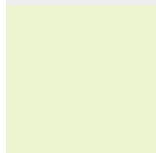
## Original Color

76.2685, 91.7194, 44.6942



## Achromatopsia

81.2670, 85.4993, 93.1087



## Achromatomaly

78.6609, 87.2600, 72.3715

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 76.2685, 91.7194, 44.6942 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(236, 255, 155)` looks like.

```
.text, #text, p{  
    color:rgb(236, 255, 155)  
}
```

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(236, 255, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 255, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 76.2685, 91.7194, 44.6942 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(236, 255, 155) }
```



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

```
.border{ border-color:rgb(236, 255, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 255, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 255, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 255, 155);  
box-shadow:4px 4px 4px 4px rgb(236, 255,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 76.2685, 91.7194, 44.6942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 255, 155) }
```

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

```
.background{ background-color: rgb(236,  
255, 155) }
```

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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