

# Converting Colors

XYZ(70.3035, 89.1645, 20.9137)

Have a look what the booklet for  
XYZ(70.3035, 89.1645, 20.9137)  
contains.

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# Color

**XYZ(70.4500, 89.2403,  
20.9091)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8FF4F
RGB	232, 255, 79
RGB Percent	91%, 100%, 31%
CMY	0.0902, 0.0000, 0.6902
CMYK	0.09, 0.00, 0.69, 0.00
HSL	68°, 100%, 65%
HSV	68°, 69%, 100%
XYZ	70.4500, 89.2403, 20.9091
YIQ	228.0590, 42.7880, -59.6120

# Conversions

## Conversions Part 2

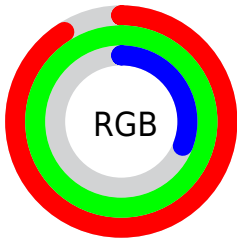
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 255, 102
Decimal	15269711
CIELab	95.68, -28.88, 77.17
CIELCh	96, 82.395, 110.521
Yxy	89.2403, 0.3901, 0.4941
Android (android.graphics.Color)	4293459791 (0xFFE8FF4F)
YUV	228.0590, -73.4861, 3.4563
Hunter-Lab	94.4671, -32.1988, 53.0039

# Details

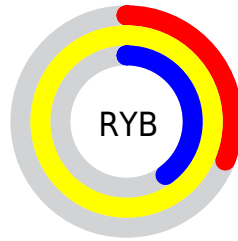
The XYZ color **70.4500, 89.2403, 20.9091** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light washed yellow. A complement of this color would be **26.3267, 15.6380, 96.2386**, and the grayscale version is **74.2846, 78.1531, 85.1088**.

A 20% lighter version of the original color is **81.5154, 94.5861, 37.6275**, and **37.4277, 49.2724, 7.5379** is the 20% darker color. If you saturate the color by 10%, you get **68.6212, 88.3850, 16.8728**, and if you desaturate by 10%, it is **72.6552, 90.2485, 26.8223**.

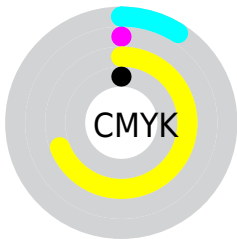
# Distribution



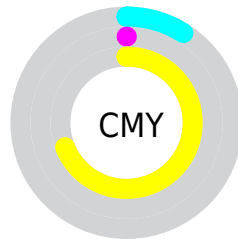
- Red (91%)
- Green (100%)
- Blue (31%)



- Red (31%)
- Yellow (100%)
- Blue (40%)



- Cyan (9%)
- Magenta (0%)
- Yellow (69%)
- Black (0%)




- Cyan (9%)
- Magenta (0%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.4500, 89.2403, 20.9091 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 70.4500, 89.2403, 20.9091 by changing the saturation by 10% instead.




 70.4500, 89.2403,  
20.9091

 70.4500, 89.2403,  
20.9091


451.3703,  
525.5565, 269.5602


 52.1744, 67.3507,  
12.8670


 118.8730,  
146.2827, 45.8150


 37.3689, 49.3697,  
7.2074


 149.7512,  
182.2043, 63.5159

 25.6683, 34.9128,  
3.5117

 185.5609,  
223.5720, 85.2735

 16.7070, 23.5957,  
1.3615

 226.6675,  
270.7703, 111.5062

 10.1198, 15.0340,  
0.1114

273.4364,  
324.1835, 142.6327

 5.5413, 8.8433,  
0.0000

326.2329,

 2.6062, 4.6391,

384.1960, 179.0715

0.0000

385.4224,  
451.1922, 221.2412

■ 0.9491, 2.0371,  
0.0000

■ 0.0000, 0.6289,  
0.0000

■ 70.4500, 89.2403,  
20.9091

■ 70.4500, 89.2403,  
20.9091

■ 68.6212, 88.3850,  
16.8728

■ 72.6552, 90.2485,  
26.8223

■ 67.1253, 87.6652,  
14.4822

■ 75.2731, 91.4243,  
34.8006

■ 65.8985, 87.0554,  
13.4021

■ 78.3360, 92.7803,  
45.0133

■ 65.7845, 86.9982,  
13.3251

■ 81.8725, 94.3283,  
57.6114

■ 85.9088, 96.0786,  
72.7325

■ 90.4694, 98.0410,  
90.5040

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.



92.1971, 89.2403, 18.7567



70.4500, 89.2403, 20.9091



55.4483, 89.2403, 37.4804

# Triad

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



70.4500, 89.2403, 20.9091



60.0328, 89.2403, 228.7465



135.4407, 89.2403, 119.1914

# Complementary

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



70.4500, 89.2403, 20.9091



26.3267, 15.6380, 96.2386

# 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.



123.0749, 89.2403, 200.0073



70.4500, 89.2403, 20.9091



77.8477, 89.2403, 279.4344

# Square

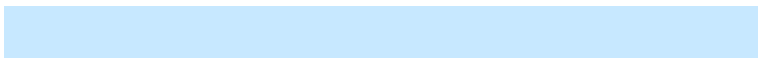
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



70.4500, 89.2403, 20.9091



50.2191, 89.2403, 147.7810



101.0227, 89.2403, 267.0590



132.4989, 89.2403, 59.6722



# Rectangle

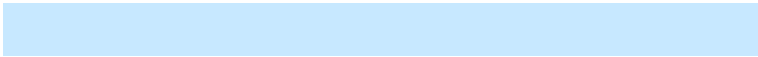
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.4500, 89.2403, 20.9091



50.0283, 89.2403, 61.2257



101.0227, 89.2403, 267.0590



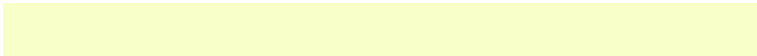
132.8640, 89.2403, 144.9797

# Sweetspot

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



70.4500, 89.2403, 20.9103



85.0676, 95.7150, 69.5276



47.1646, 30.8507, 10.8672



17.9645, 20.3815, 13.9632



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.



70.4500, 89.2403, 20.9103



67.9883, 88.0832, 15.7377



49.1094, 78.2388, 19.9116



19.3139, 20.9633, 19.1727



34.4649, 45.5054, 6.9669



3.4179, 4.4628, 0.6813



# Inverse Universe

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



26.3267, 15.6380, 96.2386



21.5260, 10.3133, 95.4639



41.4712, 23.4453, 96.9474



17.2236, 17.4915, 22.7184



9.8323, 3.9792, 49.6844

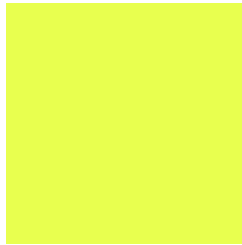


1.0226, 0.4211, 4.8407



# Previews

## White Background



This preview shows how the XYZ color 70.4500, 89.2403, 20.9091 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

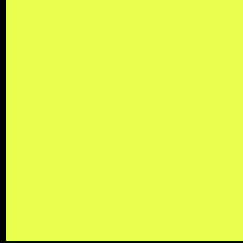
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.4500, 89.2403, 20.9091 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 70.4500, 89.2403, 20.9091**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.4500, 89.2403, 20.9091.



This preview shows how white text looks on a background with the XYZ color 70.4500, 89.2403,



# Color Blindness Simulation

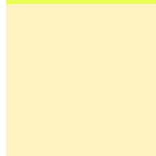
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



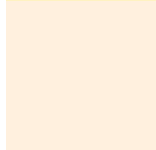
### Original Color

70.4500, 89.2403, 20.9091



### Protanopia

82.6178, 88.6145, 63.2020



### Deuteranopia

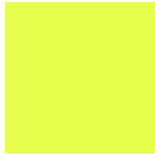
85.5849, 88.8541, 81.7470



## Tritanopia

87.6279, 88.9095, 107.1505

# Trichromacy



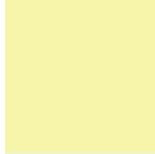
## Original Color

70.4500, 89.2403, 20.9091



## Protanomaly

77.2860, 88.5627, 42.7267



## Deuteranomaly

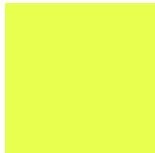
78.2659, 87.9813, 50.8872



## Tritanomaly

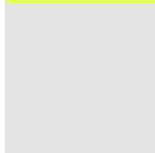
78.6743, 87.9436, 62.1185

# Monochromacy



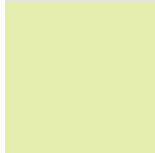
## Original Color

70.4500, 89.2403, 20.9091



## Achromatopsia

73.7419, 77.5822, 84.4870



## Achromatomaly

70.5276, 80.8631, 51.9353

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.4500, 89.2403, 20.9091 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(232, 255, 79)` looks like.

```
.text, #text, p{  
    color:rgb(232, 255, 79)  
}
```

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(232, 255, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 255, 79) }
```

## Border

The CSS property to change the border of an element to XYZ 70.4500, 89.2403, 20.9091 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(232, 255, 79) }
```



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

```
.border{ border-color:rgb(232, 255, 79) }
```

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

Here you see how a box with a 4 pixel rgb(232, 255, 79) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 255, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 255, 79);  
box-shadow:4px 4px 4px 4px rgb(232, 255,  
79) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.4500, 89.2403, 20.9091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 255, 79) }
```

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

```
.background{ background-color: rgb(232,  
255, 79) }
```

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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