

# Converting Colors

XYZ(44.5652, 75.9902, 15.4507)

Have a look what the booklet for  
XYZ(44.5652, 75.9902, 15.4507)  
contains.

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# Color

**XYZ(44.5259, 75.9700,  
15.4489)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BFF33
RGB	123, 255, 51
RGB Percent	48%, 100%, 20%
CMY	0.5176, 0.0000, 0.8000
CMYK	0.52, 0.00, 0.80, 0.00
HSL	99°, 100%, 60%
HSV	99°, 80%, 100%
XYZ	44.5259, 75.9700, 15.4489
YIQ	192.2760, -13.1880, -91.4280

# Conversions

## Conversions Part 2

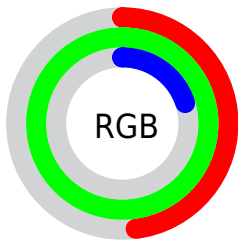
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">51, 255, 183</a>
Decimal	<a href="#">8126259</a>
CIELab	<a href="#">89.85, -67.91, 78.18</a>
CIElCh	<a href="#">90, 103.552, 130.978</a>
Yxy	<a href="#">75.9700, 0.3275, 0.5588</a>
Android (android.graphics.Color)	<a href="#">4286316339 (0xFF7BFF33)</a>
YUV	<a href="#">192.2760, -69.6491, -60.7551</a>
Hunter-Lab	<a href="#">87.1608, -61.3450, 50.5036</a>

# Details

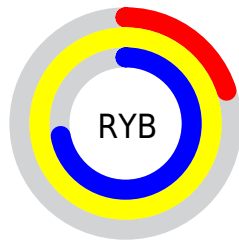
The XYZ color **44.5259, 75.9700, 15.4489** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **38.7652, 19.6571, 96.3588**, and the grayscale version is **50.6650, 53.3035, 58.0475**.

A 20% lighter version of the original color is **59.0470, 83.1740, 28.8617**, and **21.3315, 40.6363, 6.7193** is the 20% darker color. If you saturate the color by 10%, you get **41.9443, 74.6872, 13.1542**, and if you desaturate by 10%, it is **47.8135, 77.5811, 19.3854**.

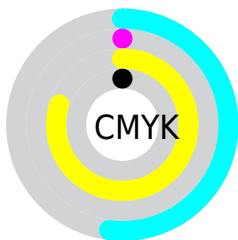
# Distribution



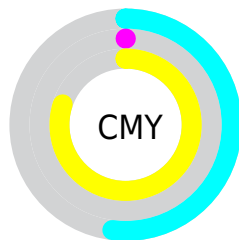
- Red (48%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (72%)



- Cyan (52%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.5259, 75.9700, 15.4489 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 44.5259, 75.9700, 15.4489 by changing the saturation by 10% instead.





 44.5259, 75.9700,  
15.4489

 44.5259, 75.9700,  
15.4489


355.6661,  
481.2450, 237.8011

 31.2838, 56.4079,  
8.9849


 81.2500, 127.6845,  
36.3922


 20.9680, 40.5301,  
4.6347


 105.4627,  
160.6057, 51.7085

 13.2129, 27.9521,  
1.9796


 134.0630,  
198.7487, 70.8128

 7.6533, 18.2895,  
0.5427

 167.4163,  
242.4980, 94.1234

 3.9239, 11.1581,  
0.0000

 205.8879,  
292.2378, 122.0591

 1.6592, 6.1732,  
0.0000

249.8432,

 0.4305, 2.9507,

348.3527, 155.0382

0.0000

299.6475,  
411.2269, 193.4793

■ 0.0000, 1.1061,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 44.5259, 75.9700,  
15.4489

■ 44.5259, 75.9700,  
15.4489

■ 41.9443, 74.6872,  
13.1542

■ 47.8135, 77.5811,  
19.3854

■ 39.9763, 73.6936,  
12.1176

■ 51.8693, 79.5475,  
25.1934

■ 39.9756, 73.6932,  
12.1173

■ 56.7478, 81.8932,  
33.0694

■ 62.4976, 84.6394,  
43.1844

■ 69.1633, 87.8058,  
55.6914

■ 76.7859, 91.4105,  
70.7300

■ 85.4041, 95.4705,  
88.4290

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.



63.2433, 75.9700, 7.1890



44.5259, 75.9700, 15.4489



34.9856, 75.9700, 44.7878

# Triad

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



44.5259, 75.9700, 15.4489



57.3381, 75.9700, 300.0227



132.0286, 75.9700, 58.6972

# Complementary

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



44.5259, 75.9700, 15.4489



38.7652, 19.6571, 96.3588

# 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.



129.3770, 75.9700, 137.6255



44.5259, 75.9700, 15.4489



81.9805, 75.9700, 312.2550

# Square

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



44.5259, 75.9700, 15.4489



41.0850, 75.9700, 213.6790



109.4864, 75.9700, 241.0706



116.0508, 75.9700, 20.4771



# Rectangle

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



44.5259, 75.9700, 15.4489



33.3595, 75.9700, 85.1444



109.4864, 75.9700, 241.0706



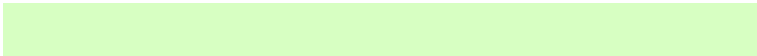
133.3676, 75.9700, 80.3390

# Sweetspot

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



44.5261, 75.9700, 15.4500



73.6165, 89.9134, 64.3963



58.2002, 54.2239, 10.5319



15.1816, 18.9730, 12.6524



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.



44.5261, 75.9700, 15.4500



40.7022, 74.0614, 12.4429



38.5084, 72.7771, 19.2648



18.3763, 20.4799, 19.1288



21.0341, 38.5815, 6.3384



2.1613, 3.8149, 0.6224



# Inverse Universe

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



38.7652, 19.6571, 96.3588



34.4390, 15.8332, 95.8487



56.4003, 29.2189, 75.9215



18.1341, 17.9609, 22.7610



17.7086, 8.0396, 50.0530

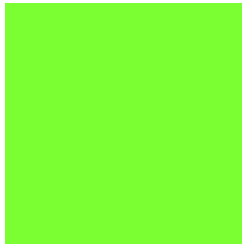


1.8429, 0.8439, 4.8790



# Previews

## White Background



This preview shows how the XYZ color 44.5259, 75.9700, 15.4489 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

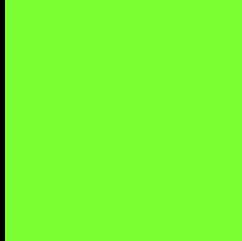
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.5259, 75.9700, 15.4489 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

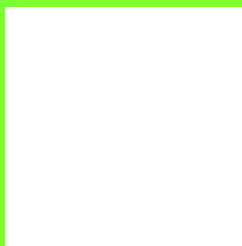
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 44.5259, 75.9700, 15.4489**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.5259, 75.9700, 15.4489.



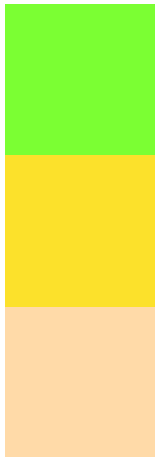
This preview shows how white text looks on a background with the XYZ color 44.5259, 75.9700,



# 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

44.5259, 75.9700, 15.4489

### Protanopia

67.5061, 74.7203, 13.1500

### Deuteranopia

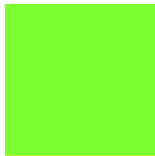
73.3793, 74.2300, 47.5061



## Tritanopia

63.2345, 75.4698, 105.8421

# Trichromacy



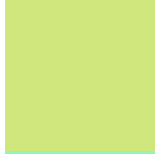
## Original Color

44.5259, 75.9700, 15.4489



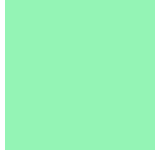
## Protanomaly

55.6654, 73.1673, 13.7736



## Deuteranomaly

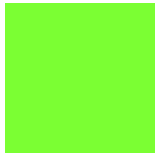
58.0097, 71.8979, 30.2223



## Tritanomaly

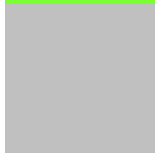
52.9039, 74.3335, 55.2755

# Monochromacy



## Original Color

44.5259, 75.9700, 15.4489



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

45.0445, 58.7395, 34.1631

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.5259, 75.9700, 15.4489 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(123, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(123, 255, 51)  
}
```

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(123, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 44.5259, 75.9700, 15.4489 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(123, 255, 51) }
```



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

```
.border{ border-color:rgb(123, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(123, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.5259, 75.9700, 15.4489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 255, 51) }
```

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

```
.background{ background-color: rgb(123,  
255, 51) }
```

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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