

# Converting Colors

XYZ(44.5328, 70.0402, 18.5787)

Have a look what the booklet for  
XYZ(44.5328, 70.0402, 18.5787)  
contains.

<b>XYZ(44.4911, 69.9084, 18.5459)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(44.4911, 69.9084,  
18.5459)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8FF24F
RGB	143, 242, 79
RGB Percent	56%, 95%, 31%
CMY	0.4392, 0.0510, 0.6902
CMYK	0.41, 0.00, 0.67, 0.05
HSL	96°, 86%, 63%
HSV	96°, 67%, 95%
XYZ	44.4911, 69.9084, 18.5459
YIQ	193.8170, -6.6810, -71.6810

# Conversions

## Conversions Part 2

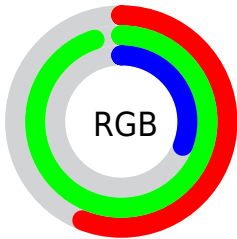
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 242, 178
Decimal	9433679
CIELab	86.95, -55.53, 66.64
CIELCh	87, 86.746, 129.807
Yxy	69.9084, 0.3347, 0.5258
Android (android.graphics.Color)	4287623759 (0xFF8FF24F)
YUV	193.8170, -56.6048, -44.5665
Hunter-Lab	83.6112, -51.3365, 45.3767

# Details

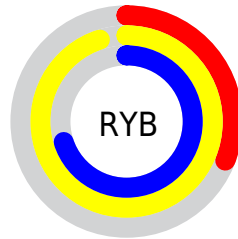
The XYZ color **44.4911, 69.9084, 18.5459** is a light color, and the websafe version is hex **99FF66**. The color can be described as light washed chartreuse. A complement of this color would be **37.1867, 21.4701, 86.1925**, and the grayscale version is **51.4987, 54.1807, 59.0028**.

A 20% lighter version of the original color is **64.4903, 85.8258, 36.0887**, and **20.9382, 36.5457, 6.0653** is the 20% darker color. If you saturate the color by 10%, you get **41.3859, 68.3937, 14.6100**, and if you desaturate by 10%, it is **48.2536, 71.7292, 24.1881**.

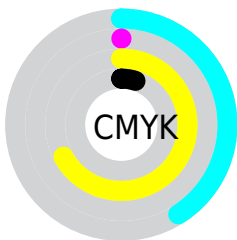
# Distribution



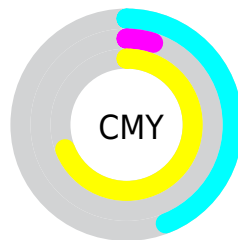
- Red (56%)
- Green (95%)
- Blue (31%)



- Red (31%)
- Yellow (95%)
- Blue (70%)



- Cyan (41%)
- Magenta (0%)
- Yellow (67%)
- Black (5%)



- Cyan (44%)
- Magenta (5%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.4911, 69.9084, 18.5459 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 44.4911, 69.9084, 18.5459 by changing the saturation by 10% instead.



■ 44.4911, 69.9084,  
18.5459

■ 44.4911, 69.9084,  
18.5459

355.5270,  
460.2283, 256.2689

■ 31.2563, 51.4519,  
11.1691

■ 81.1980, 119.0781,  
41.7918

■ 20.9469, 36.5683,  
6.0651

■ 105.4009,  
150.5601, 58.4980

■ 13.1974, 24.8735,  
2.8153

■ 133.9905,  
187.1527, 79.1511

■ 7.6426, 15.9828,  
1.0011

■ 167.3321,  
229.2402, 104.1696

■ 3.9170, 9.5120,  
0.0000

■ 205.7913,  
277.2072, 133.9721

■ 1.6553, 5.0766,  
0.0000

249.7333,

■ 0.4280, 2.2923,

331.4379, 168.9771

0.0000

299.5234,  
392.3168, 209.6032

■ 0.0000, 0.7696,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 44.4911, 69.9084,  
18.5459

■ 44.4911, 69.9084,  
18.5459

■ 41.3859, 68.3937,  
14.6100

■ 48.2536, 71.7292,  
24.1881

■ 38.8834, 67.1548,  
12.1820


■ 52.7118, 73.8659,  
31.6972


■ 36.9236, 66.1684,  
11.0096


■ 57.9064, 76.3384,  
41.2201

■ 36.4742, 65.9407,  
10.8055

■ 63.8732, 79.1624,  
52.8879

 70.6456, 82.3523,  
66.8206

 78.2546, 85.9218,  
83.1294

 86.7295, 89.8837,  
101.9181

 91.0436, 91.9872,  
107.5645

# Harmonies

## Analogous

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



60.0273, 69.9084, 10.6069



44.4911, 69.9084, 18.5459



36.1736, 69.9084, 43.7296

# Triad

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



44.4911, 69.9084, 18.5459



53.8824, 69.9084, 236.2402



112.7141, 69.9084, 58.6485

# Complementary

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



44.4911, 69.9084, 18.5459



37.1867, 21.4701, 86.1925

# 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.



110.1372, 69.9084, 121.5037



44.4911, 69.9084, 18.5459



73.3064, 69.9084, 247.5407

# Square

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



44.4911, 69.9084, 18.5459



40.7817, 69.9084, 172.2471



94.6445, 69.9084, 198.0606



101.1004, 69.9084, 24.6951



# Rectangle

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



44.4911, 69.9084, 18.5459



34.6003, 69.9084, 75.7429



94.6445, 69.9084, 198.0606



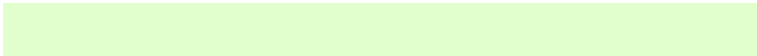
113.5256, 69.9084, 76.4950

# Sweetspot

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



44.4927, 69.9114, 18.5474



77.4066, 91.7306, 70.7528



53.7148, 50.8101, 14.3744



16.1032, 19.4152, 14.1836



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.



44.4927, 69.9114, 18.5474



45.4387, 76.4469, 15.2061



37.0580, 66.0015, 21.6858



16.1529, 17.9590, 16.7648



19.7361, 35.4959, 5.8112



1.7505, 3.0089, 0.4885



# Inverse Universe

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



37.1867, 21.4701, 86.1925



36.5604, 18.3589, 96.2244



53.1030, 29.9457, 74.7207



15.8187, 15.7037, 19.9190



15.2307, 6.8571, 45.6487

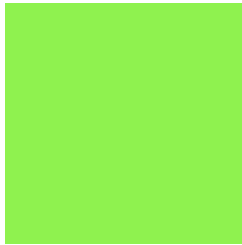


1.3784, 0.6279, 3.8028



# Previews

## White Background



This preview shows how the XYZ color 44.4911, 69.9084, 18.5459 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 44.4911, 69.9084, 18.5459 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

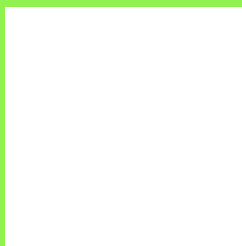
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 44.4911, 69.9084, 18.5459**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.4911, 69.9084, 18.5459.



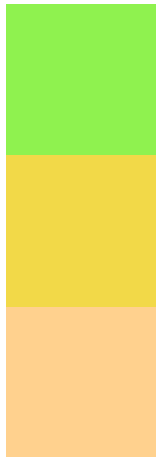
This preview shows how white text looks on a background with the XYZ color 44.4911, 69.9084,



# 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

44.4911, 69.9084, 18.5459

### Protanopia

62.6005, 68.9708, 16.1442

### Deuteranopia

68.9229, 68.8139, 35.2410



## Tritanopia

59.8877, 69.3594, 95.8192

# Trichromacy



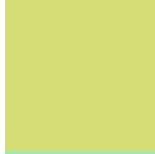
## Original Color

44.4911, 69.9084, 18.5459



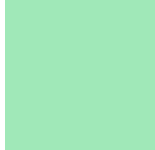
## Protanomaly

53.9200, 68.0225, 16.9444



## Deuteranomaly

56.9178, 67.3410, 27.4510



## Tritanomaly

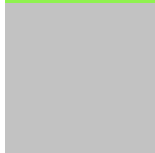
52.0055, 68.6475, 55.8567

# Monochromacy



## Original Color

44.4911, 69.9084, 18.5459



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

46.6410, 57.9695, 38.4368

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.4911, 69.9084, 18.5459 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(143, 242, 79)` looks like.

```
.text, #text, p{  
    color:rgb(143, 242, 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(143, 242, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(143, 242, 79) }
```

## Border

The CSS property to change the border of an element to XYZ 44.4911, 69.9084, 18.5459 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(143, 242, 79) }
```



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

```
.border{ border-color:rgb(143, 242, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(143, 242, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(143, 242, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(143, 242, 79);  
box-shadow:4px 4px 4px 4px rgb(143, 242,  
79) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.4911, 69.9084, 18.5459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(143, 242, 79) }
```

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

```
.background{ background-color: rgb(143,  
242, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor