

# Converting Colors

XYZ(48.6428, 77.9615, 21.5504)

Have a look what the booklet for  
XYZ(48.6428, 77.9615, 21.5504)  
contains.

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# Color

**XYZ(48.6356, 77.9589,  
21.5010)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8EFF57
RGB	142, 255, 87
RGB Percent	56%, 100%, 34%
CMY	0.4431, 0.0000, 0.6588
CMYK	0.44, 0.00, 0.66, 0.00
HSL	100°, 100%, 67%
HSV	100°, 66%, 100%
XYZ	48.6356, 77.9589, 21.5010
YIQ	202.0610, -13.4200, -76.2040

# Conversions

## Conversions Part 2

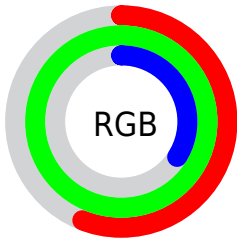
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 255, 200
Decimal	9371479
CIELab	90.76, -60.26, 67.61
CIELCh	91, 90.561, 131.710
Yxy	77.9589, 0.3284, 0.5264
Android (android.graphics.Color)	4287561559 (0xFF8EFF57)
YUV	202.0610, -56.7251, -52.6735
Hunter-Lab	88.2943, -56.1911, 47.3680

# Details

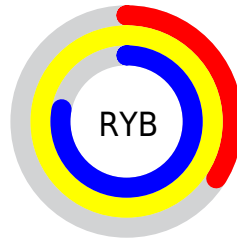
The XYZ color **48.6356, 77.9589, 21.5010** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **45.2795, 26.3174, 97.3010**, and the grayscale version is **56.5261, 59.4699, 64.7627**.

A 20% lighter version of the original color is **65.1512, 86.0902, 39.5688**, and **23.4008, 41.6885, 7.4752** is the 20% darker color. If you saturate the color by 10%, you get **45.0512, 76.2109, 16.8223**, and if you desaturate by 10%, it is **53.0411, 80.0876, 28.1401**.

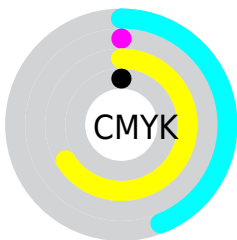
# Distribution



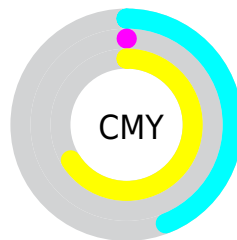
- Red (56%)
- Green (100%)
- Blue (34%)



- Red (34%)
- Yellow (100%)
- Blue (78%)



- Cyan (44%)
- Magenta (0%)
- Yellow (66%)
- Black (0%)




- Cyan (44%)
- Magenta (0%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6356, 77.9589, 21.5010 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 48.6356, 77.9589, 21.5010 by changing the saturation by 10% instead.





 48.6356, 77.9589,  
21.5010


 48.6356, 77.9589,  
21.5010


371.8468,  
488.0272, 272.7971


 34.5438, 58.0402,  
13.2959


 87.3540, 130.4922,  
46.8114


 23.4766, 41.8410,  
7.4995


 112.7113,  
163.8756, 64.7538

 15.0684, 28.9768,  
3.6933


 142.5546,  
202.5160, 86.7791

 8.9541, 19.0633,  
1.4586

 177.2491,  
246.7978, 113.3058

 4.7681, 11.7160,  
0.1868

217.1602,  
297.1055, 144.7524

 2.1452, 6.5506,  
0.0000

262.6533,

 0.7136, 3.1827,

353.8233, 181.5374

0.0000

314.0937,  
417.3358, 224.0795

0.0000, 1.2278,  
0.0000

0.0000, 0.0843,  
0.0000

48.6356, 77.9589,  
21.5010

48.6356, 77.9589,  
21.5010

45.0512, 76.2109,  
16.8223

53.0411, 80.0876,  
28.1401

42.2258, 74.8165,  
13.8850

58.3213, 82.6208,  
36.9203

40.0870, 73.7440,  
12.4230

64.5252, 85.5801,  
48.0059

39.3695, 73.3807,  
12.0889

71.6980, 88.9856,  
61.5442

■ 79.8816, 92.8559,  
77.6700

■ 89.1151, 97.2086,  
96.5085

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.



65.5690, 77.9589, 11.8154



48.6356, 77.9589, 21.5010



39.8393, 77.9589, 51.3240

# Triad

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



48.6356, 77.9589, 21.5010



61.1992, 77.9589, 268.0611



125.7179, 77.9589, 61.9110

# Complementary

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



48.6356, 77.9589, 21.5010



45.2795, 26.3174, 97.3010

# 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.



123.8782, 77.9589, 130.5855



48.6356, 77.9589, 21.5010



83.3355, 77.9589, 276.1529

# Square

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



48.6356, 77.9589, 21.5010



46.0029, 77.9589, 198.5092



107.1821, 77.9589, 216.9697



111.7879, 77.9589, 25.8343



# Rectangle

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



48.6356, 77.9589, 21.5010



38.4083, 77.9589, 88.6774



107.1821, 77.9589, 216.9697



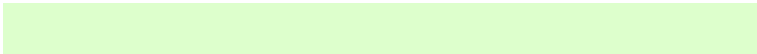
126.9896, 77.9589, 81.2003

# Sweetspot

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



48.6358, 77.9590, 21.5022



76.3852, 91.2040, 70.7049



63.3843, 62.7959, 17.7981



15.8606, 19.2901, 14.1722



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.



48.6358, 77.9590, 21.5022



44.0914, 75.7393, 15.7302



42.7857, 74.7844, 28.4008



18.3315, 20.4568, 19.1267



20.7103, 38.4146, 6.3232



2.1258, 3.7967, 0.6208



# Inverse Universe

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



45.2795, 26.3174, 97.3010



40.3479, 20.6423, 96.4655



58.5139, 33.6233, 76.0796



18.1808, 17.9850, 22.7632



18.4306, 8.4118, 50.0868

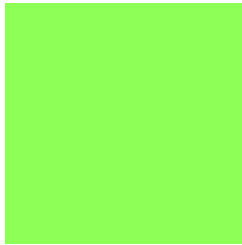


1.9096, 0.8783, 4.8822



# Previews

## White Background



This preview shows how the XYZ color 48.6356, 77.9589, 21.5010 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 48.6356, 77.9589, 21.5010 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

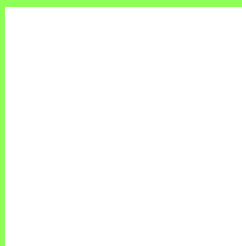
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.6356, 77.9589, 21.5010**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6356, 77.9589, 21.5010.



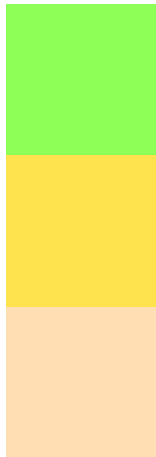
This preview shows how white text looks on a background with the XYZ color 48.6356, 77.9589,



# 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

48.6356, 77.9589, 21.5010

### Protanopia

69.7534, 76.5735, 18.5009

### Deuteranopia

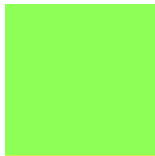
75.4980, 76.7572, 53.4843



## Tritanopia

66.4656, 77.1355, 105.9933

# Trichromacy



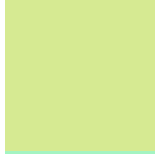
## Original Color

48.6356, 77.9589, 21.5010



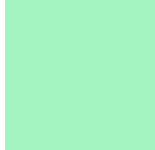
## Protanomaly

59.2477, 75.3237, 19.3989



## Deuteranomaly

62.3427, 75.2171, 38.4267



## Tritanomaly

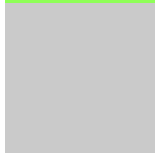
57.3981, 76.4889, 62.7776

# Monochromacy



## Original Color

48.6356, 77.9589, 21.5010



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

51.0240, 63.9543, 42.9129

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6356, 77.9589, 21.5010 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(142, 255, 87)` looks like.

```
.text, #text, p{  
    color:rgb(142, 255, 87)  
}
```

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(142, 255, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(142, 255, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6356, 77.9589, 21.5010 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(142, 255, 87) }
```



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

```
.border{ border-color:rgb(142, 255, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(142, 255, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(142, 255, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(142, 255, 87);  
box-shadow:4px 4px 4px 4px rgb(142, 255,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6356, 77.9589, 21.5010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(142, 255, 87) }
```

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

```
.background{ background-color: rgb(142,  
255, 87) }
```

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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