

# Converting Colors

XYZ(49.7325, 81.9779, 21.1326)

Have a look what the booklet for  
XYZ(49.7325, 81.9779, 21.1326)  
contains.

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# Color

**XYZ(47.4363, 77.3634,  
20.4151)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88FF52
RGB	136, 255, 82
RGB Percent	53%, 100%, 32%
CMY	0.4667, 0.0000, 0.6784
CMYK	0.47, 0.00, 0.68, 0.00
HSL	101°, 100%, 66%
HSV	101°, 68%, 100%
XYZ	47.4363, 77.3634, 20.4151
YIQ	199.6970, -15.3910, -79.0310

# Conversions

## Conversions Part 2

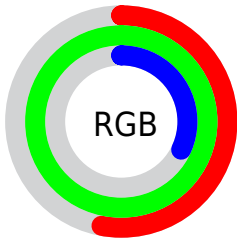
Format	Color
<a href="#">RYB</a>	<a href="#">82, 255, 201</a>
Decimal	<a href="#">8978258</a>
CIELab	<a href="#">90.49, -62.40, 69.13</a>
CIELCh	<a href="#">90, 93.125, 132.069</a>
Yxy	<a href="#">77.3634, 0.3267, 0.5328</a>
Android (android.graphics.Color)	<a href="#">4287168338 (0xFF88FF52)</a>
YUV	<a href="#">199.6970, -58.0246, -55.8623</a>
Hunter-Lab	<a href="#">87.9565, -57.6560, 47.8080</a>

# Details

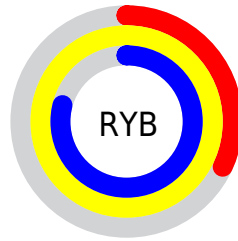
The XYZ color **47.4363, 77.3634, 20.4151** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **45.1567, 25.6738, 97.1833**, and the grayscale version is **55.0658, 57.9335, 63.0895**.

A 20% lighter version of the original color is **63.4462, 85.2544, 37.5379**, and **22.6716, 41.3234, 6.9536** is the 20% darker color. If you saturate the color by 10%, you get **44.0199, 75.6943, 16.0969**, and if you desaturate by 10%, it is **51.6797, 79.4173, 26.6551**.

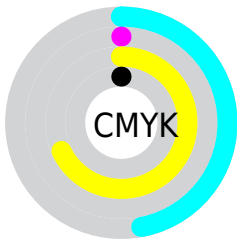
# Distribution



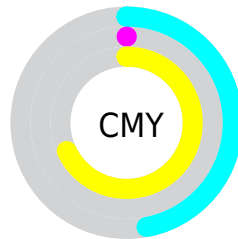
- Red (53%)
- Green (100%)
- Blue (32%)



- Red (32%)
- Yellow (100%)
- Blue (79%)



- Cyan (47%)
- Magenta (0%)
- Yellow (68%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4363, 77.3634, 20.4151 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 47.4363, 77.3634, 20.4151 by changing the saturation by 10% instead.





 47.4363, 77.3634,  
20.4151


 47.4363, 77.3634,  
20.4151


367.1733,  
486.0022, 266.8317

 33.5901, 57.5512,  
12.5101


 85.5793, 129.6523,  
44.9801


 22.7403, 41.4479,  
6.9653


 110.6068,  
162.8978, 62.4772

 14.5215, 28.6693,  
3.3623


 140.0921,  
201.3899, 84.0087

 8.5684, 18.8308,  
1.2825

 174.4006,  
245.5129, 109.9932

 4.5156, 11.5481,  
0.0474

213.8976,  
295.6512, 140.8492

 1.9977, 6.4367,  
0.0000

258.9485,

 0.6327, 3.1124,

352.1893, 176.9953

0.0000

309.9186,  
415.5114, 218.8499

0.0000, 1.1907,  
0.0000

0.0000, 0.0541,  
0.0000

47.4363, 77.3634,  
20.4151

47.4363, 77.3634,  
20.4151

44.0199, 75.6943,  
16.0969

51.6797, 79.4173,  
26.6551

41.3650, 74.3809,  
13.4735

56.8065, 81.8808,  
35.0029

39.3908, 73.3882,  
12.2473

62.8681, 84.7767,  
45.6265

39.0337, 73.2077,  
12.0732

69.9115, 88.1262,  
58.6759

■ 77.9805, 91.9488,  
74.2883

■ 87.1160, 96.2626,  
92.5906

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.



64.5654, 77.3634, 10.7841



47.4363, 77.3634, 20.4151



38.6409, 77.3634, 50.6146

# Triad

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



47.4363, 77.3634, 20.4151



60.5951, 77.3634, 274.5016



126.5552, 77.3634, 60.1780

# Complementary

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



47.4363, 77.3634, 20.4151



45.1567, 25.6738, 97.1833

# 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.



124.8613, 77.3634, 130.1816



47.4363, 77.3634, 20.4151



83.2916, 77.3634, 282.0276

# Square

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



47.4363, 77.3634, 20.4151



45.0604, 77.3634, 202.6077



107.7795, 77.3634, 219.7093



112.0105, 77.3634, 24.2349



# Rectangle

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



47.4363, 77.3634, 20.4151



37.2609, 77.3634, 88.9473



107.7795, 77.3634, 219.7093



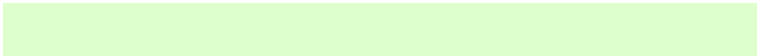
127.9389, 77.3634, 79.6933

# Sweetspot

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



47.4365, 77.3635, 20.4163



76.1494, 91.0825, 70.6939



63.4681, 63.2791, 16.8527



15.8047, 19.2613, 14.1696



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.



47.4365, 77.3635, 20.4163



43.1023, 75.2424, 15.0968



42.2616, 74.5227, 27.9935



18.3049, 20.4431, 19.1255



20.5303, 38.3218, 6.3148



2.1057, 3.7863, 0.6198



# Inverse Universe

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



45.1567, 25.6738, 97.1833



40.4939, 20.3868, 96.4085



57.6154, 32.6385, 73.2764



18.2088, 17.9994, 22.7645



18.8782, 8.6426, 50.1078

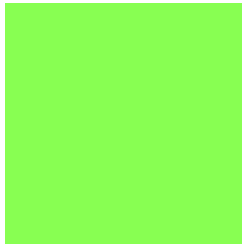


1.9507, 0.8995, 4.8841



# Previews

## White Background



This preview shows how the XYZ color 47.4363, 77.3634, 20.4151 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

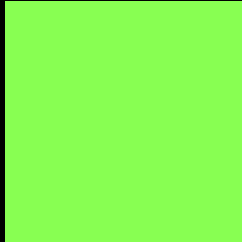
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4363, 77.3634, 20.4151 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

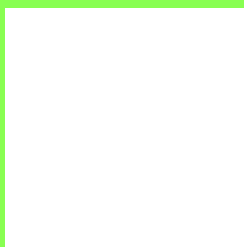
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.4363, 77.3634, 20.4151**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4363, 77.3634, 20.4151.



This preview shows how white text looks on a background with the XYZ color 47.4363, 77.3634,



# 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

47.4363, 77.3634, 20.4151

### Protanopia

69.2131, 76.3152, 17.5610

### Deuteranopia

74.9329, 76.1075, 51.8151



## Tritanopia

65.3474, 76.5590, 105.9409

# Trichromacy



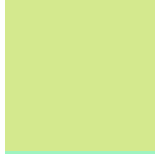
## Original Color

47.4363, 77.3634, 20.4151



## Protanomaly

58.2021, 74.8058, 18.3926



## Deuteranomaly

61.1728, 74.2279, 36.6944



## Tritanomaly

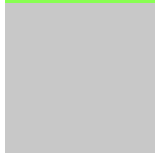
56.1632, 75.8781, 61.5550

# Monochromacy



## Original Color

47.4363, 77.3634, 20.4151



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

49.8105, 62.9678, 41.4270

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4363, 77.3634, 20.4151 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(136, 255, 82)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 82)  
}
```

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(136, 255, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4363, 77.3634, 20.4151 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(136, 255, 82) }
```



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

```
.border{ border-color:rgb(136, 255, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 255, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 82);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4363, 77.3634, 20.4151 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 82) }
```

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

```
.background{ background-color: rgb(136,  
255, 82) }
```

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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