

# Converting Colors

XYZ(45.5572, 76.5254, 14.4228)

Have a look what the booklet for  
XYZ(45.5572, 76.5254, 14.4228)  
contains.

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# Color

**XYZ(45.5203, 76.5054,  
14.4657)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83FF29
RGB	131, 255, 41
RGB Percent	51%, 100%, 16%
CMY	0.4863, 0.0000, 0.8392
CMYK	0.49, 0.00, 0.84, 0.00
HSL	95°, 100%, 58%
HSV	95°, 84%, 100%
XYZ	45.5203, 76.5054, 14.4657
YIQ	193.5280, -5.2100, -92.8420

# Conversions

## Conversions Part 2

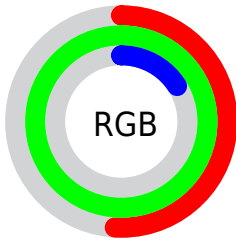
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">41, 255, 165</a>
Decimal	<a href="#">8650537</a>
CIELab	<a href="#">90.09, -66.11, 80.87</a>
CIELCh	<a href="#">90, 104.448, 129.264</a>
Yxy	<a href="#">76.5054, 0.3335, 0.5605</a>
Android (android.graphics.Color)	<a href="#">4286840617 (0xFF83FF29)</a>
YUV	<a href="#">193.5280, -75.1963, -54.8371</a>
Hunter-Lab	<a href="#">87.4674, -60.1718, 51.4215</a>

# Details

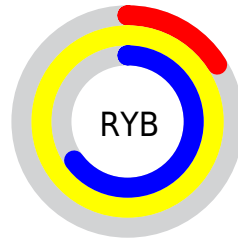
The XYZ color **45.5203, 76.5054, 14.4657** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **34.3632, 16.8075, 96.0408**, and the grayscale version is **51.4322, 54.1107, 58.9265**.

A 20% lighter version of the original color is **60.4591, 83.9402, 27.2029**, and **22.0162, 40.9893, 6.7514** is the 20% darker color. If you saturate the color by 10%, you get **43.0820, 75.2843, 12.7320**, and if you desaturate by 10%, it is **48.5729, 78.0099, 17.7312**.

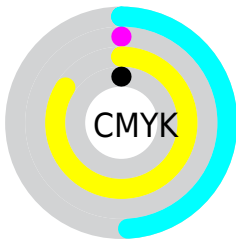
# Distribution



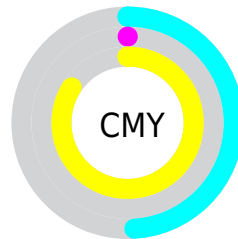
- Red (51%)
- Green (100%)
- Blue (16%)



- Red (16%)
- Yellow (100%)
- Blue (65%)



- Cyan (49%)
- Magenta (0%)
- Yellow (84%)
- Black (0%)




- Cyan (49%)
- Magenta (0%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.5203, 76.5054, 14.4657 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 45.5203, 76.5054, 14.4657 by changing the saturation by 10% instead.





 45.5203, 76.5054,  
14.4657

 45.5203, 76.5054,  
14.4657


359.6251,  
483.0760, 231.6373


 32.0705, 56.8470,  
8.3028


 82.7329, 128.4411,  
34.6420

 21.5711, 40.8824,  
4.1988


 107.2264,  
161.4871, 49.4926


 13.6570, 28.2272,  
1.7350


 136.1318,  
199.7646, 68.0761

 7.9626, 18.4970,  
0.3846

 169.8144,  
243.6578, 90.8112

 4.1226, 11.3074,  
0.0000

 208.6398,  
293.5511, 118.1163

 1.7717, 6.2740,  
0.0000

252.9731,

 0.5005, 3.0124,

349.8290, 150.4100

0.0000

303.1797,  
412.8759, 188.1108

0.0000, 1.1382,  
0.0000

0.0000, 0.0103,  
0.0000

45.5203, 76.5054,  
14.4657

45.5203, 76.5054,  
14.4657

43.0820, 75.2843,  
12.7320

48.5729, 78.0099,  
17.7312

41.8515, 74.6603,  
12.2051

52.3003, 79.8236,  
22.7791

56.7544, 81.9686,  
29.8184

61.9806, 84.4644,  
39.0282

■ 68.0203, 87.3288,  
50.5678

■ 74.9112, 90.5782,  
64.5815

■ 82.6888, 94.2278,  
81.2019

■ 91.3861, 98.2922,  
100.5521

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.



64.9859, 76.5054, 6.9252



45.5203, 76.5054, 14.4657



35.3629, 76.5054, 42.3045

# Triad

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



45.5203, 76.5054, 14.4657



56.4632, 76.5054, 300.7077



133.8101, 76.5054, 62.3756

# Complementary

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



45.5203, 76.5054, 14.4657



34.3632, 16.8075, 96.0408

# 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.



129.9767, 76.5054, 144.7264



45.5203, 76.5054, 14.4657



81.0361, 76.5054, 318.4156

# Square

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



45.5203, 76.5054, 14.4657



40.5591, 76.5054, 210.1842



109.0289, 76.5054, 249.8223



118.5166, 76.5054, 21.6950



# Rectangle

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



45.5203, 76.5054, 14.4657



33.4068, 76.5054, 81.4829



109.0289, 76.5054, 249.8223



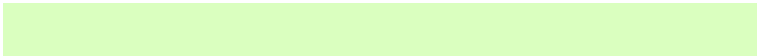
134.7823, 76.5054, 85.1467

# Sweetspot

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



45.5205, 76.5054, 14.4668



74.1224, 90.2070, 62.9396



54.6088, 47.3569, 8.3616



15.3329, 19.0573, 12.3766



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.



45.5205, 76.5054, 14.4668



41.8515, 74.6603, 12.2051



37.3712, 72.2702, 15.6294



18.4955, 20.5413, 19.1344



22.0297, 39.0948, 6.3850



2.2663, 3.8691, 0.6274



# Inverse Universe

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



34.3632, 16.8075, 96.0408



30.2205, 13.4941, 95.6196



57.8709, 29.1818, 85.5936



18.0113, 17.8976, 22.7552



15.9650, 7.1408, 49.9714

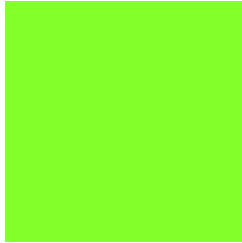


1.6792, 0.7596, 4.8714



# Previews

## White Background



This preview shows how the XYZ color 45.5203, 76.5054, 14.4657 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

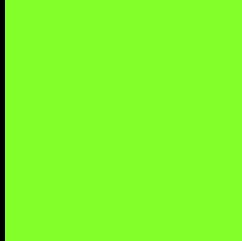
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.5203, 76.5054, 14.4657 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 45.5203, 76.5054, 14.4657**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.5203, 76.5054, 14.4657.



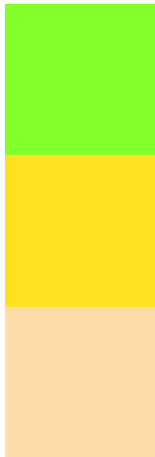
This preview shows how white text looks on a background with the XYZ color 45.5203, 76.5054,



# 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

45.5203, 76.5054, 14.4657

### Protanopia

68.3439, 75.5733, 12.4238

### Deuteranopia

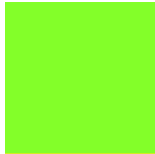
73.8272, 74.8253, 48.5818



## Tritanopia

64.2705, 76.0039, 105.8905

# Trichromacy



## Original Color

45.5203, 76.5054, 14.4657



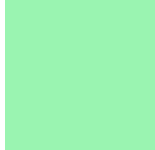
## Protanomaly

56.8971, 74.2511, 13.0022



## Deuteranomaly

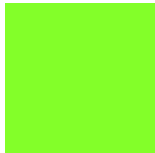
59.0101, 72.8449, 29.6892



## Tritanomaly

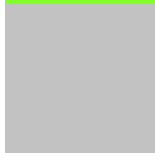
53.6129, 74.7457, 53.1966

# Monochromacy



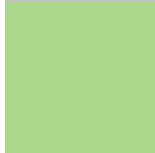
## Original Color

45.5203, 76.5054, 14.4657



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

45.9379, 59.6046, 33.1284

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.5203, 76.5054, 14.4657 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(131, 255, 41)` looks like.

```
.text, #text, p{  
    color:rgb(131, 255, 41)  
}
```

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(131, 255, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 255, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 45.5203, 76.5054, 14.4657 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(131, 255, 41) }
```



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

```
.border{ border-color:rgb(131, 255, 41) }
```

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

Here you see how a box with a 4 pixel rgb(131, 255, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 255, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 255, 41);  
box-shadow:4px 4px 4px 4px rgb(131, 255,  
41) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.5203, 76.5054, 14.4657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 255, 41) }
```

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

```
.background{ background-color: rgb(131,  
255, 41) }
```

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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