

# Converting Colors

XYZ(45.3269, 76.4462, 12.6253)

Have a look what the booklet for  
XYZ(45.3269, 76.4462, 12.6253)  
contains.

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# Color

**XYZ(45.3250, 76.4453,  
12.6250)**

# Conversions

## Conversions Part 1

Format	Color
Hex	84FF09
RGB	132, 255, 9
RGB Percent	52%, 100%, 4%
CMY	0.4824, 0.0000, 0.9645
CMYK	0.48, 0.00, 0.96, 0.00
HSL	90°, 100%, 52%
HSV	90°, 96%, 100%
XYZ	45.3250, 76.4453, 12.6250
YIQ	190.1790, 5.6580, -102.5820

# Conversions

## Conversions Part 2

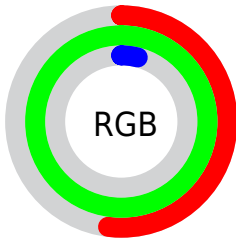
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	9, 255, 132
Decimal	8716041
CIE <sub>Lab</sub>	90.07, -66.55, 85.35
CIE <sub>LCh</sub>	90, 108.223, 127.944
Yxy	76.4453, 0.3373, 0.5688
Android (android.graphics.Color)	4286906121 (0xFF84FF09)
YUV	190.1790, -89.3212, -51.0230
Hunter-Lab	87.4330, -60.4739, 52.6418

# Details

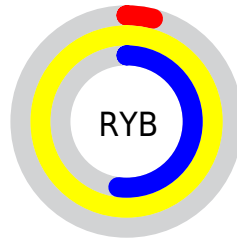
The XYZ color **45.3250, 76.4453, 12.6250** is a dark color, and the websafe version is hex **99FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **27.6702, 12.3251, 95.5283**, and the grayscale version is **49.5462, 52.1265, 56.7657**.

A 20% lighter version of the original color is **60.0737, 83.8156, 23.8383**, and **22.0162, 40.9893, 6.7514** is the 20% darker color. If you saturate the color by 10%, you get **44.5838, 76.0688, 12.3329**, and if you desaturate by 10%, it is **47.6898, 77.6358, 14.0262**.

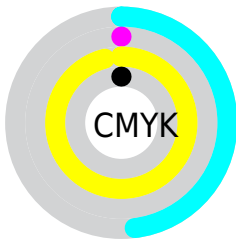
# Distribution



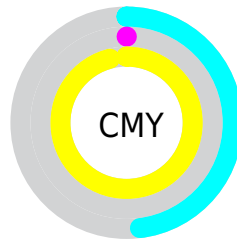
- Red (52%)
- Green (100%)
- Blue (4%)



- Red (4%)
- Yellow (100%)
- Blue (52%)



- Cyan (48%)
- Magenta (0%)
- Yellow (96%)
- Black (0%)




- Cyan (48%)
- Magenta (0%)
- Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3250, 76.4453, 12.6250 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 45.3250, 76.4453, 12.6250 by changing the saturation by 10% instead.




 45.3250, 76.4453,  
12.6250

 45.3250, 76.4453,  
12.6250


358.8498,  
482.8707, 219.6229

 31.9159, 56.7977,  
7.0432


 82.4420, 128.3562,  
31.3097

 21.4525, 40.8429,  
3.4102


 106.8805,  
161.3882, 45.2496


 13.5695, 28.1963,  
1.3077


 135.7262,  
199.6506, 62.8126

 7.9015, 18.4737,  
0.0681

 169.3444,  
243.5277, 84.4172

 4.0833, 11.2906,  
0.0000

 208.1006,  
293.4038, 110.4820

 1.7494, 6.2627,  
0.0000

 252.3599,

 0.4869, 3.0054,

349.6634, 141.4255

0.0000

302.4879,  
412.6909, 177.6663

■ 0.0000, 1.1346,  
0.0000

■ 0.0000, 0.0073,  
0.0000

■ 45.3250, 76.4453,  
12.6250

■ 45.3250, 76.4453,  
12.6250

■ 44.5838, 76.0688,  
12.3329

■ 47.6898, 77.6358,  
14.0262

■ 50.5797, 79.0655,  
16.8758

■ 54.0541, 80.7591,  
21.4463

■ 58.1617, 82.7368,  
27.9548

62.9450, 85.0166,  
36.5865

68.4418, 87.6143,  
47.5050

74.6869, 90.5447,  
60.8578

81.7124, 93.8213,  
76.7800

89.5483, 97.4569,  
95.3968

# Harmonies

## Analogous

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



65.7582, 76.4453, 5.9012



45.3250, 76.4453, 12.6250



34.5606, 76.4453, 39.1627

# Triad

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



45.3250, 76.4453, 12.6250



54.9543, 76.4453, 309.0552



136.6807, 76.4453, 64.4368

# Complementary

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



45.3250, 76.4453, 12.6250



27.6702, 12.3251, 95.5283

# 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.



131.7418, 76.4453, 151.9723



45.3250, 76.4453, 12.6250



80.0264, 76.4453, 332.1376

# Square

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



45.3250, 76.4453, 12.6250



39.0908, 76.4453, 211.1798



109.2295, 76.4453, 262.6229



121.4197, 76.4453, 21.4240



# Rectangle

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



45.3250, 76.4453, 12.6250



32.3297, 76.4453, 78.0467



109.2295, 76.4453, 262.6229



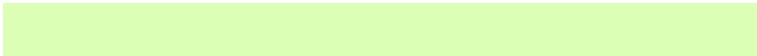
137.3859, 76.4453, 88.6503

# Sweetspot

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



45.3251, 76.4453, 12.6261



73.0247, 89.7666, 57.2208



49.5435, 37.7878, 4.9421



15.0579, 18.9452, 11.0215



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.



45.3251, 76.4453, 12.6261



44.5838, 76.0688, 12.3329



35.9227, 71.5981, 12.1861



18.6368, 20.6142, 19.1410



23.4682, 39.8364, 6.4523



2.4110, 3.9436, 0.6341



# Inverse Universe

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



27.6702, 12.3251, 95.5283



26.8803, 11.7722, 95.4633



59.3881, 28.6762, 97.0127



17.8685, 17.8240, 22.7485



14.2177, 6.2400, 49.8897

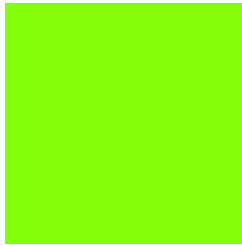


1.5103, 0.6725, 4.8635



# Previews

## White Background



This preview shows how the XYZ color 45.3250, 76.4453, 12.6250 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

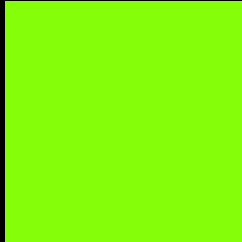
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3250, 76.4453, 12.6250 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 45.3250, 76.4453, 12.6250**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3250, 76.4453, 12.6250.



This preview shows how white text looks on a background with the XYZ color 45.3250, 76.4453,



# 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

45.3250, 76.4453, 12.6250

### Protanopia

67.7983, 74.9213, 10.8879

### Deuteranopia

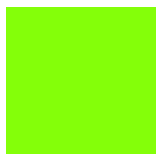
73.7329, 74.7876, 48.0854



## Tritanopia

64.4826, 76.1132, 105.9005

# Trichromacy



## Original Color

45.3250, 76.4453, 12.6250



## Protanomaly

56.5902, 73.6991, 11.3289



## Deuteranomaly

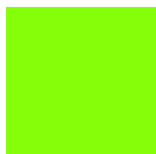
58.3042, 72.5626, 25.9719



## Tritanomaly

52.7512, 74.4231, 47.6612

# Monochromacy



## Original Color

45.3250, 76.4453, 12.6250



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

44.0468, 57.9834, 27.9392

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3250, 76.4453, 12.6250 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(132, 255, 9)` looks like.

```
.text, #text, p{  
    color:rgb(132, 255, 9)  
}
```

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(132, 255, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 255, 9) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3250, 76.4453, 12.6250 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(132, 255, 9) }
```



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

```
.border{ border-color:rgb(132, 255, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 255, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 255, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 255, 9);  
box-shadow:4px 4px 4px 4px rgb(132, 255,  
9) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3250, 76.4453, 12.6250 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 255, 9) }
```

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

```
.background{ background-color: rgb(132,  
255, 9) }
```

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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