

# Converting Colors

XYZ(45.8798, 76.3811, 28.4729)

Have a look what the booklet for  
XYZ(45.8798, 76.3811, 28.4729)  
contains.

<b>XYZ(45.9247, 76.4026, 28.5464)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(45.9247, 76.4026,  
28.5464)**

# Conversions

## Conversions Part 1

Format	Color
Hex	73FF73
RGB	115, 255, 115
RGB Percent	45%, 100%, 45%
CMY	0.5490, 0.0000, 0.5490
CMYK	0.55, 0.00, 0.55, 0.00
HSL	120°, 100%, 73%
HSV	120°, 55%, 100%
XYZ	45.9247, 76.4026, 28.5464
YIQ	197.1800, -38.5000, -73.2200

# Conversions

## Conversions Part 2

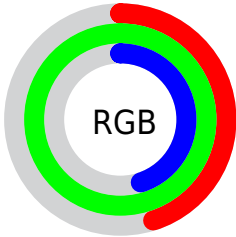
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">115, 255, 255</a>
Decimal	<a href="#">7602035</a>
CIELab	<a href="#">90.05, -64.75, 54.83</a>
CIELCh	<a href="#">90, 84.845, 139.739</a>
Yxy	<a href="#">76.4026, 0.3044, 0.5064</a>
Android (android.graphics.Color)	<a href="#">4285792115 (0xFF73FF73)</a>
YUV	<a href="#">197.1800, -40.5147, -72.0719</a>
Hunter-Lab	<a href="#">87.4086, -59.1806, 41.8227</a>

# Details

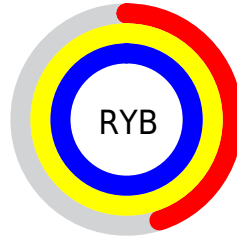
The XYZ color **45.9247, 76.4026, 28.5464** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **65.4202, 40.7414, 99.0205**, and the grayscale version is **53.4335, 56.2162, 61.2194**.

A 20% lighter version of the original color is **61.1472, 83.7694, 50.9765**, and **21.8048, 40.7830, 11.1376** is the 20% darker color. If you saturate the color by 10%, you get **41.7525, 74.3985, 21.7225**, and if you desaturate by 10%, it is **51.4306, 79.0474, 37.5530**.

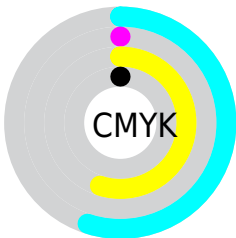
# Distribution



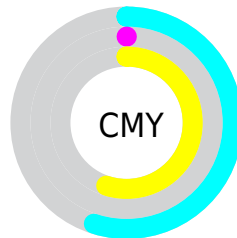
- Red (45%)
- Green (100%)
- Blue (45%)



- Red (45%)
- Yellow (100%)
- Blue (100%)



- Cyan (55%)
- Magenta (0%)
- Yellow (55%)
- Black (0%)



- Cyan (55%)
- Magenta (0%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9247, 76.4026, 28.5464 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 45.9247, 76.4026, 28.5464 by changing the saturation by 10% instead.



45.9247, 76.4026,  
28.5464

45.9247, 76.4026,  
28.5464

361.2268,  
482.7248, 309.0624

32.3908, 56.7627,  
18.4953

83.3348, 128.2958,  
58.3892

21.8171, 40.8148,  
11.1331

107.9418,  
161.3180, 79.0180

13.8385, 28.1744,  
6.0411

136.9704,  
199.5696, 104.0098

8.0893, 18.4571,  
2.8009

170.7862,  
243.4352, 133.7831

4.2045, 11.2787,  
0.9939

209.7543,  
293.2991, 168.7564

1.8184, 6.2546,  
0.0000


254.2402,


0.5287, 3.0005,


349.5458, 209.3484


0.0000


304.6093,  
412.5595, 255.9775


 0.0000, 1.1320,  
0.0000


 0.0000, 0.0051,  
0.0000


 45.9247, 76.4026,  
28.5464


 45.9247, 76.4026,  
28.5464

 41.7525, 74.3985,  
21.7225


 51.4306, 79.0474,  
37.5530


 38.8000, 72.9802,  
16.8929


 58.3692, 82.3803,  
48.9024

 36.9360, 72.0849,  
13.8439

 66.8313, 86.4451,  
62.7436

 35.9987, 71.6346,  
12.3105

 76.9000, 91.2816,  
79.2127

 35.7600, 71.5200,  
11.9202

 88.6523, 96.9269,  
98.4356

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.



59.7995, 76.4026, 14.8631



45.9247, 76.4026, 28.5464



39.6527, 76.4026, 64.2178

# Triad

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



45.9247, 76.4026, 28.5464



65.6505, 76.4026, 257.1035



117.7170, 76.4026, 49.8861

# Complementary

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



45.9247, 76.4026, 28.5464



65.4202, 40.7414, 99.0205

# Split Complementary

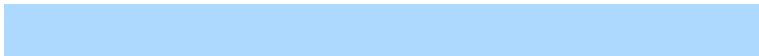
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



120.1195, 76.4026, 105.5717



45.9247, 76.4026, 28.5464



87.1496, 76.4026, 246.7380

# Square

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



45.9247, 76.4026, 28.5464



49.4942, 76.4026, 206.5542



108.0539, 76.4026, 182.7244



102.0125, 76.4026, 22.4148



# Rectangle

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



45.9247, 76.4026, 28.5464



39.6100, 76.4026, 104.3576



108.0539, 76.4026, 182.7244



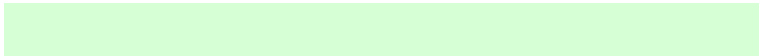
120.2091, 76.4026, 65.0968

# Sweetspot

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



45.9250, 76.4028, 28.5476



75.7133, 90.7116, 77.2716



80.0945, 94.0178, 30.1456



15.7413, 19.1929, 15.7796



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

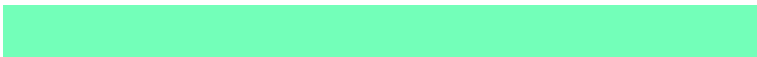
The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.9250, 76.4028, 28.5476



41.3708, 74.2151, 21.0981



51.5873, 78.6677, 58.3645



17.7717, 20.1682, 19.1006



18.6854, 37.3708, 6.2286



1.8193, 3.6387, 0.6065



# Inverse Universe

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



65.4202, 40.7414, 99.0205



62.6733, 35.2476, 98.1043



56.1278, 37.0244, 50.0872



18.7927, 18.3004, 22.7917



30.9798, 14.8812, 50.6713

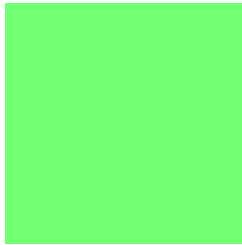


3.0164, 1.4489, 4.9337



# Previews

## White Background



This preview shows how the XYZ color 45.9247, 76.4026, 28.5464 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

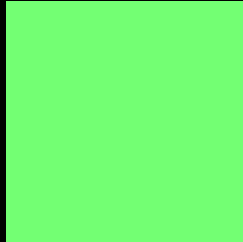
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9247, 76.4026, 28.5464 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

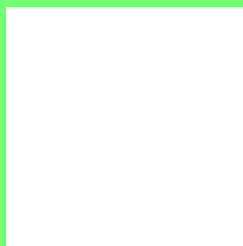
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.9247, 76.4026, 28.5464**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.9247, 76.4026, 28.5464.



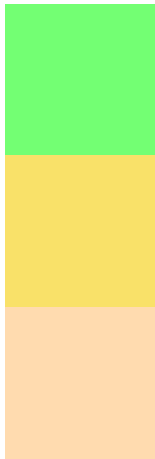
This preview shows how white text looks on a background with the XYZ color 45.9247, 76.4026,



# 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

45.9247, 76.4026, 28.5464

### Protanopia

68.5419, 75.0101, 24.2304

### Deuteranopia

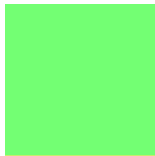
74.3094, 75.0182, 51.1209



## Tritanopia

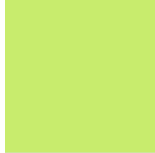
63.1217, 75.8427, 105.9200

# Trichromacy



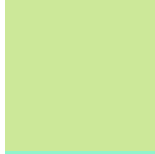
## Original Color

45.9247, 76.4026, 28.5464



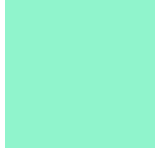
## Protanomaly

56.5752, 73.3744, 25.6488



## Deuteranomaly

59.5082, 72.8505, 41.0621



## Tritanomaly

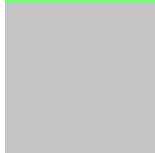
54.7514, 74.9903, 68.7156

# Monochromacy



## Original Color

45.9247, 76.4026, 28.5464



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

47.9828, 61.1483, 45.8331

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9247, 76.4026, 28.5464 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(115, 255, 115)` looks like.

```
.text, #text, p{  
    color:rgb(115, 255, 115)  
}
```

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(115, 255, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 255, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9247, 76.4026, 28.5464 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(115, 255, 115) }
```



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

```
.border{ border-color:rgb(115, 255, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 255, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 255, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 255, 115);  
box-shadow:4px 4px 4px 4px rgb(115, 255,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9247, 76.4026, 28.5464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 255, 115) }
```

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

```
.background{ background-color: rgb(115,  
255, 115) }
```

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