

# Converting Colors

XYZ(45.4371, 75.6332, 51.9287)

Have a look what the booklet for  
XYZ(45.4371, 75.6332, 51.9287)  
contains.

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# Color

**XYZ(45.4172, 75.6271,  
51.7389)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40FFAD
RGB	64, 255, 173
RGB Percent	25%, 100%, 68%
CMY	0.7490, 0.0000, 0.3216
CMYK	0.75, 0.00, 0.32, 0.00
HSL	154°, 100%, 63%
HSV	154°, 75%, 100%
XYZ	45.4172, 75.6271, 51.7389
YIQ	188.5430, -87.5140, -65.9940

# Conversions

## Conversions Part 2

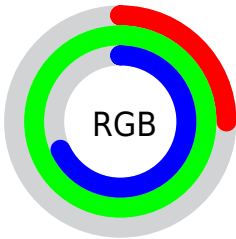
Format	Color
<a href="#">RYB</a>	<a href="#">64, 186, 255</a>
Decimal	<a href="#">4259757</a>
CIELab	<a href="#">89.69, -64.64, 26.15</a>
CIElCh	<a href="#">90, 69.733, 157.977</a>
Yxy	<a href="#">75.6271, 0.2629, 0.4377</a>
Android (android.graphics.Color)	<a href="#">4282449837</a> ( <a href="#">0xFF40FFAD</a> )
YUV	<a href="#">188.5430, -7.6627, -109.2242</a>
Hunter-Lab	<a href="#">86.9638, -58.9644, 25.6003</a>

# Details

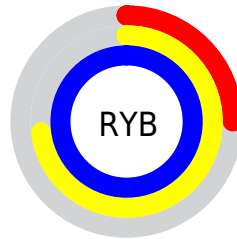
The XYZ color **45.4172, 75.6271, 51.7389** is a light color, and the websafe version is hex **33FF99**. The color can be described as light washed spring green. A complement of this color would be **48.2624, 27.0030, 29.8642**, and the grayscale version is **48.1877, 50.6972, 55.2092**.

A 20% lighter version of the original color is **60.2194, 82.4955, 86.8781**, and **23.3564, 41.2886, 24.5078** is the 20% darker color. If you saturate the color by 10%, you get **43.1046, 74.5523, 46.3261**, and if you desaturate by 10%, it is **48.5751, 77.1276, 57.6470**.

# Distribution



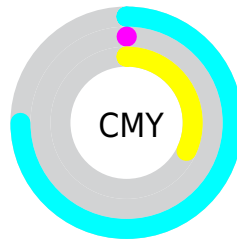
- Red (25%)
- Green (100%)
- Blue (68%)



- Red (25%)
- Yellow (73%)
- Blue (100%)



- Cyan (75%)
- Magenta (0%)
- Yellow (32%)
- Black (0%)



- Cyan (75%)
- Magenta (0%)
- Yellow (32%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4172, 75.6271, 51.7389 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 45.4172, 75.6271, 51.7389 by changing the saturation by 10% instead.




 45.4172, 75.6271,  
51.7389


 45.4172, 75.6271,  
51.7389


359.2159,  
480.0702, 410.3560


 31.9888, 56.1268,  
36.4162


 82.5793, 127.1997,  
94.1687


 21.5085, 40.3046,  
24.4636


 107.0438,  
160.0407, 122.1129

 13.6108, 27.7761,  
15.4625


 135.9177,  
198.0974, 155.1013

 7.9303, 18.1570,  
8.9944

 169.5664,  
241.7542, 193.5525

 4.1018, 11.0627,  
4.6408

208.3552,  
291.3955, 237.8851

 1.7599, 6.1090,  
1.9830

252.6495,

 0.4933, 2.9115,

347.4057, 288.5175

0.5448

302.8146,  
410.1691, 345.8683

■ 0.0000, 1.0857,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.4172, 75.6271,  
51.7389

■ 45.4172, 75.6271,  
51.7389

■ 43.1046, 74.5523,  
46.3261

■ 48.5751, 77.1276,  
57.6470


■ 41.5207, 73.8435,  
41.3886


■ 52.6699, 79.1008,  
64.0612


■ 40.9113, 73.5805,  
39.0462


■ 57.7826, 81.5883,  
70.9968

■ 63.9848, 84.6267,  
78.4670

 71.3411, 88.2492,  
86.4841

 79.9112, 92.4863,  
95.0602

 89.7504, 97.3663,  
104.2070

 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.



53.4222, 75.6271, 28.0441



45.4172, 75.6271, 51.7389



43.8961, 75.6271, 96.1733

# Triad

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



45.4172, 75.6271, 51.7389



76.5601, 75.6271, 215.9323



101.1676, 75.6271, 36.7956

# Complementary

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



45.4172, 75.6271, 51.7389



48.2624, 27.0030, 29.8642

# 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.



109.7778, 75.6271, 69.9103



45.4172, 75.6271, 51.7389



94.1670, 75.6271, 181.6054

# Square

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



45.4172, 75.6271, 51.7389



60.2001, 75.6271, 204.7527



107.0304, 75.6271, 123.1255



84.9835, 75.6271, 22.1203



# Rectangle

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



45.4172, 75.6271, 51.7389



46.4925, 75.6271, 135.1322



107.0304, 75.6271, 123.1255



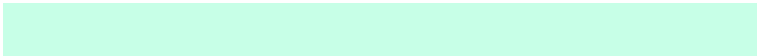
105.1521, 75.6271, 45.4814

# Sweetspot

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



45.4178, 75.6274, 51.7402



73.6985, 89.4132, 88.9126



48.6771, 78.0721, 17.3553



15.3019, 18.9048, 18.5445



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.



45.4178, 75.6274, 51.7402



42.2140, 74.1494, 43.7493



51.9965, 71.9736, 105.7595



18.2060, 20.3419, 21.3877



21.4534, 38.4779, 20.8045



2.1436, 3.7684, 2.3141



# Inverse Universe

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



48.2624, 27.0030, 29.8642



45.2384, 23.4328, 21.2171



44.8013, 26.9016, 7.6827



18.3331, 18.1165, 20.3712



23.0759, 11.7196, 9.0500

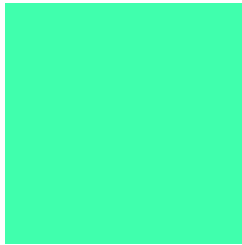


2.3003, 1.1625, 1.1626



# Previews

## White Background



This preview shows how the XYZ color 45.4172, 75.6271, 51.7389 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

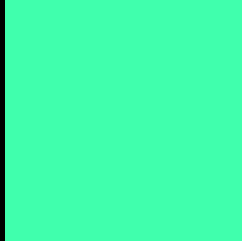
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.4172, 75.6271, 51.7389 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

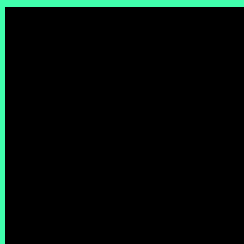
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.4172, 75.6271, 51.7389**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4172, 75.6271, 51.7389.



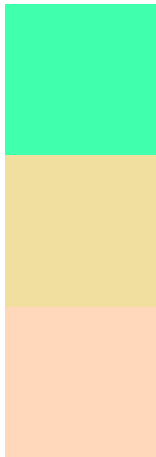
This preview shows how white text looks on a background with the XYZ color 45.4172, 75.6271,



# 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

45.4172, 75.6271, 51.7389

### Protanopia

68.9213, 73.9793, 43.4478

### Deuteranopia

74.8730, 74.0026, 57.9146



## Tritanopia

60.2442, 74.7926, 105.8690

# Trichromacy



## Original Color

45.4172, 75.6271, 51.7389



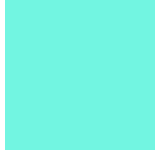
## Protanomaly

54.5406, 71.4441, 46.0375



## Deuteranomaly

57.0938, 70.4516, 55.3891



## Tritanomaly

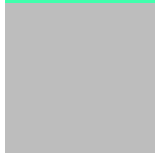
53.1824, 74.3185, 82.7761

# Monochromacy



## Original Color

45.4172, 75.6271, 51.7389



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

43.8431, 56.9367, 53.4789

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4172, 75.6271, 51.7389 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(64, 255, 173)` looks like.

```
.text, #text, p{  
    color:rgb(64, 255, 173)  
}
```

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(64, 255, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 255, 173) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4172, 75.6271, 51.7389 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(64, 255, 173) }
```



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

```
.border{ border-color:rgb(64, 255, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 255, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 255, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 255, 173);  
box-shadow:4px 4px 4px 4px rgb(64, 255,  
173) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4172, 75.6271, 51.7389 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 255, 173) }
```

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

```
.background{ background-color: rgb(64, 255,  
173) }
```

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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