

# Converting Colors

XYZ(45.4232, 75.5430, 55.6803)

Have a look what the booklet for  
XYZ(45.4232, 75.5430, 55.6803)  
contains.

<b>XYZ(45.4657, 75.5600, 55.9043)</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(45.4657, 75.5600,  
55.9043)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FFB5
RGB	51, 255, 181
RGB Percent	20%, 100%, 71%
CMY	0.8000, 0.0000, 0.2902
CMYK	0.80, 0.00, 0.29, 0.00
HSL	158°, 100%, 60%
HSV	158°, 80%, 100%
XYZ	45.4657, 75.5600, 55.9043
YIQ	185.5680, -97.8300, -66.2620

# Conversions

## Conversions Part 2

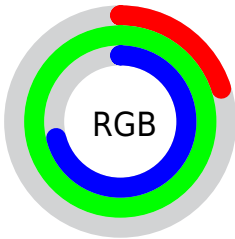
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 176, 255
Decimal	3407797
CIELab	89.65, -64.37, 22.01
CIELCh	90, 68.031, 161.120
Yxy	75.5600, 0.2570, 0.4271
Android (android.graphics.Color)	4281597877 (0xFF33FFB5)
YUV	185.5680, -2.2520, -118.0161
Hunter-Lab	86.9253, -58.7559, 22.7165

# Details

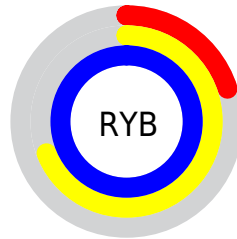
The XYZ color **45.4657, 75.5600, 55.9043** is a light color, and the websafe version is hex **00FFCC**. The color can be described as light washed spring green. A complement of this color would be **46.1262, 25.1091, 21.8193**, and the grayscale version is **46.4828, 48.9035, 53.2560**.

A 20% lighter version of the original color is **60.2520, 82.3803, 92.8461**, and **23.8625, 41.4910, 27.1730** is the 20% darker color. If you saturate the color by 10%, you get **43.5962, 74.7022, 51.0263**, and if you desaturate by 10%, it is **48.1029, 76.8061, 61.1498**.

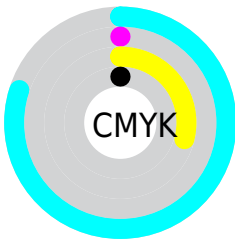
# Distribution



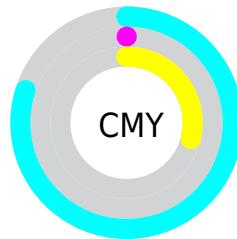
- Red (20%)
- Green (100%)
- Blue (71%)



- Red (20%)
- Yellow (69%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (29%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4657, 75.5600, 55.9043 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 45.4657, 75.5600, 55.9043 by changing the saturation by 10% instead.





 45.4657, 75.5600,  
55.9043


 45.4657, 75.5600,  
55.9043


359.4084,  
479.8402, 426.7089


 32.0272, 56.0718,  
39.7227


 82.6516, 127.1048,  
100.3490


 21.5380, 40.2605,  
27.0103


 107.1297,  
159.9301, 129.4493

 13.6325, 27.7417,  
17.3484


 136.0184,  
197.9699, 163.6928

 7.9455, 18.1310,  
10.3187

 169.6831,  
241.6086, 203.4982

 4.1116, 11.0441,  
5.5024

208.4891,  
291.2306, 249.2840

 1.7655, 6.0965,  
2.4811

252.8017,

 0.4967, 2.9039,

347.2202, 301.4686

0.8301

302.9864,  
409.9620, 360.4708

■ 0.0000, 1.0817,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.4657, 75.5600,  
55.9043

■ 45.4657, 75.5600,  
55.9043

■ 43.5962, 74.7022,  
51.0263

■ 48.1029, 76.8061,  
61.1498

■ 42.3264, 74.1466,  
46.4979

■ 51.6076, 78.4921,  
66.7697

■ 42.3261, 74.1464,  
46.4965

■ 56.0662, 80.6623,  
72.7755

■ 61.5536, 83.3552,  
79.1764

■ 68.1369, 86.6052,  
85.9813

■ 75.8775, 90.4439,  
93.1986

■ 84.8320, 94.9003,  
100.8364

■ 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.



52.6626, 75.5600, 30.5367



45.4657, 75.5600, 55.9043



44.6396, 75.5600, 101.3605

# Triad

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



45.4657, 75.5600, 55.9043



78.2054, 75.5600, 209.9092



98.8946, 75.5600, 35.3228

# Complementary

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



45.4657, 75.5600, 55.9043



46.1262, 25.1091, 21.8193

# 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.



108.2537, 75.5600, 65.7444



45.4657, 75.5600, 55.9043



95.1311, 75.5600, 173.0793

# Square

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



45.4657, 75.5600, 55.9043



61.8981, 75.5600, 203.9382



106.7783, 75.5600, 115.8487



82.7438, 75.5600, 22.2447



# Rectangle

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



45.4657, 75.5600, 55.9043



47.6377, 75.5600, 139.6981



106.7783, 75.5600, 115.8487



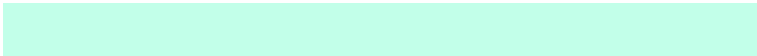
103.0447, 75.5600, 43.2362

# Sweetspot

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



45.4664, 75.5603, 55.9056



72.6362, 88.8346, 90.2594



44.9332, 76.1799, 15.4688



14.9641, 18.7252, 18.7713



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.



45.4664, 75.5603, 55.9056



42.7889, 74.3463, 48.2675



47.1043, 63.3014, 104.3435



18.2588, 20.3631, 21.6660



22.1905, 38.7728, 24.6860



2.2130, 3.7961, 2.6797



# Inverse Universe

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



46.1262, 25.1091, 21.8193



43.6029, 22.3823, 13.8266



44.5768, 26.9773, 5.9906



18.2817, 18.0960, 20.1004



22.6347, 11.5432, 6.7266

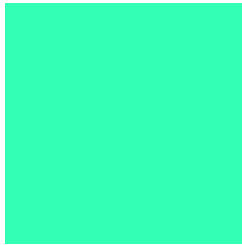


2.2540, 1.1440, 0.9192



# Previews

## White Background



This preview shows how the XYZ color 45.4657, 75.5600, 55.9043 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

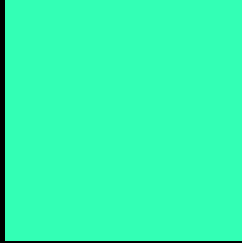
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.4657, 75.5600, 55.9043 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 45.4657, 75.5600, 55.9043**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4657, 75.5600, 55.9043.



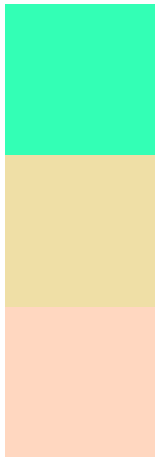
This preview shows how white text looks on a background with the XYZ color 45.4657, 75.5600,



# 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

45.4657, 75.5600, 55.9043

### Protanopia

68.8672, 73.8792, 46.7068

### Deuteranopia

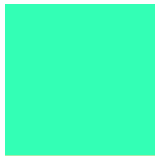
75.0549, 73.6666, 60.1324



## Tritanopia

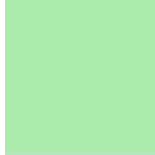
59.9010, 74.6157, 105.8529

# Trichromacy



## Original Color

45.4657, 75.5600, 55.9043



## Protanomaly

53.8536, 71.0149, 49.3969



## Deuteranomaly

56.4300, 70.0482, 58.1234



## Tritanomaly

52.8403, 74.0944, 84.9155

# Monochromacy



## Original Color

45.4657, 75.5600, 55.9043



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

42.2625, 55.3676, 53.8069

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4657, 75.5600, 55.9043 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(51, 255, 181)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 181)  
}
```

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(51, 255, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 181) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4657, 75.5600, 55.9043 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(51, 255, 181) }
```



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

```
.border{ border-color:rgb(51, 255, 181) }
```

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

Here you see how a box with a 4 pixel rgb(51, 255, 181) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 181);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
181) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4657, 75.5600, 55.9043 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 181) }
```

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

```
.background{ background-color: rgb(51, 255,  
181) }
```

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