

# Converting Colors

XYZ(47.0015, 76.1743, 63.9917)

Have a look what the booklet for  
XYZ(47.0015, 76.1743, 63.9917)  
contains.

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# Color

**XYZ(46.9756, 76.1639,  
63.8550)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FFC3
RGB	51, 255, 195
RGB Percent	20%, 100%, 76%
CMY	0.8000, 0.0000, 0.2353
CMYK	0.80, 0.00, 0.24, 0.00
HSL	162°, 100%, 60%
HSV	162°, 80%, 100%
XYZ	46.9756, 76.1639, 63.8550
YIQ	187.1640, -102.3240, -61.9080

# Conversions

## Conversions Part 2

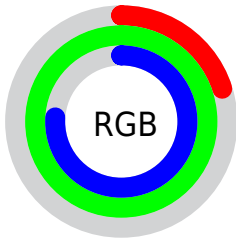
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 171, 255
Decimal	3407811
CIELab	89.94, -61.30, 15.24
CIELCh	90, 63.165, 166.039
Yxy	76.1639, 0.2512, 0.4073
Android (android.graphics.Color)	4281597891 (0xFF33FFC3)
YUV	187.1640, 3.8631, -119.4158
Hunter-Lab	87.2719, -56.6452, 17.7091

# Details

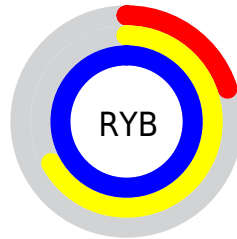
The XYZ color **46.9756, 76.1639, 63.8550** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **45.2941, 24.7766, 17.4367**, and the grayscale version is **47.3484, 49.8142, 54.2477**.

A 20% lighter version of the original color is **62.6908, 83.3736, 104.8840**, and **24.7740, 41.8556, 31.9725** is the 20% darker color. If you saturate the color by 10%, you get **45.1971, 75.3426, 59.4565**, and if you desaturate by 10%, it is **49.5016, 77.3656, 68.5135**.

# Distribution



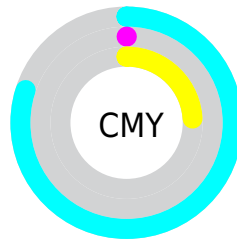
- Red (20%)
- Green (100%)
- Blue (76%)



- Red (20%)
- Yellow (67%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (24%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9756, 76.1639, 63.8550 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 46.9756, 76.1639, 63.8550 by changing the saturation by 10% instead.





 46.9756, 76.1639,  
63.8550


 46.9756, 76.1639,  
63.8550


365.3677,  
481.9086, 456.8589


 33.2242, 56.5669,  
46.0878


 84.8962, 127.9586,  
111.9995


 22.4583, 40.6576,  
31.9660


 109.7961,  
160.9250, 143.2140

 14.3125, 28.0517,  
21.0709


 139.1429,  
199.1168, 179.7479

 8.4215, 18.3646,  
12.9841

 173.3019,  
242.9182, 222.0199

 4.4199, 11.2121,  
7.2870

212.6386,  
292.7137, 270.4484

 1.9423, 6.2097,  
3.5611

257.5182,

 0.6013, 2.9730,

348.8877, 325.4521

1.3878

308.3061,  
411.8245, 387.4494

■ 0.0000, 1.1176,  
0.1322

■ 0.0000, 0.0000,  
0.0000

■ 46.9756, 76.1639,  
63.8550

■ 46.9756, 76.1639,  
63.8550

■ 45.1971, 75.3426,  
59.4565

■ 49.5016, 77.3656,  
68.5135

■ 43.9986, 74.8154,  
55.3029

■ 52.8740, 78.9987,  
73.4359

■ 43.9981, 74.8152,  
55.3011

■ 57.1787, 81.1074,  
78.6306

■ 62.4900, 83.7298,  
84.1041

■ 68.8747, 86.9004,  
89.8624

■ 76.3936, 90.6504,  
95.9114

■ 85.1028, 95.0088,  
102.2565

■ 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.



52.8487, 76.1639, 36.3946



46.9756, 76.1639, 63.8550



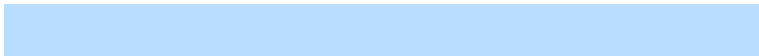
47.1872, 76.1639, 109.0442

# Triad

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



46.9756, 76.1639, 63.8550



81.0129, 76.1639, 196.1472



95.3127, 76.1639, 35.1358

# Complementary

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



46.9756, 76.1639, 63.8550



45.2941, 24.7766, 17.4367

# 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.



105.2729, 76.1639, 61.3574



46.9756, 76.1639, 63.8550



96.2407, 76.1639, 158.1406

# Square

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



46.9756, 76.1639, 63.8550



65.3825, 76.1639, 197.5837



105.6351, 76.1639, 105.4682



79.8843, 76.1639, 24.3205



# Rectangle

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



46.9756, 76.1639, 63.8550



50.7148, 76.1639, 144.5460



105.6351, 76.1639, 105.4682



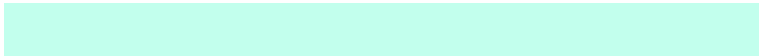
99.5029, 76.1639, 41.9111

# Sweetspot

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



46.9764, 76.1643, 63.8564



73.2428, 89.0773, 93.4538



43.0664, 75.2175, 15.3819



15.1107, 18.7838, 19.5434



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.



46.9764, 76.1643, 63.8564



44.4348, 75.0047, 56.9344



43.5136, 56.1197, 103.1465



18.3138, 20.3851, 21.9554



23.0585, 39.1200, 29.2569



2.2930, 3.8281, 3.1006



# Inverse Universe

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



45.2941, 24.7766, 17.4367



42.8814, 22.0937, 10.0273



45.6484, 29.1204, 6.3482



18.2291, 18.0750, 19.8238



22.2688, 11.3968, 4.7998

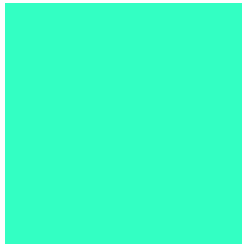


2.2136, 1.1278, 0.7060



# Previews

## White Background



This preview shows how the XYZ color 46.9756, 76.1639, 63.8550 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

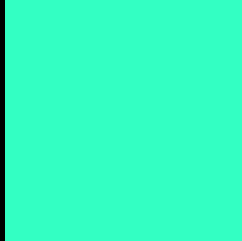
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.9756, 76.1639, 63.8550 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

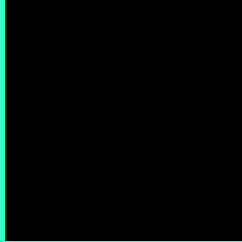
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.9756, 76.1639, 63.8550

## Background



This preview shows how black text looks on a background with the XYZ color 46.9756, 76.1639, 63.8550.



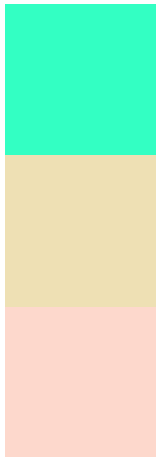
This preview shows how white text looks on a background with the XYZ color 46.9756, 76.1639, 63.8550.



# 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

46.9756, 76.1639, 63.8550

### Protanopia

70.1538, 74.7837, 53.9172

### Deuteranopia

75.9630, 74.3540, 67.4748



## Tritanopia

60.7117, 75.4695, 105.9750

# Trichromacy



## Original Color

46.9756, 76.1639, 63.8550



## Protanomaly

55.0429, 71.4655, 56.7921



## Deuteranomaly

57.6618, 70.5140, 65.8298



## Tritanomaly

53.7908, 74.5030, 88.6362

# Monochromacy



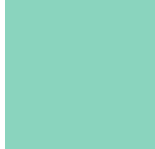
## Original Color

46.9756, 76.1639, 63.8550



## Achromatopsia

47.2335, 49.6933, 54.1160



## Achromatomaly

43.3190, 56.2079, 57.2813

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.9756, 76.1639, 63.8550 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, 195)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 195)  
}
```

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, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 195) }
```

## Border

The CSS property to change the border of an element to XYZ 46.9756, 76.1639, 63.8550 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, 195) }
```



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

```
.border{ border-color:rgb(51, 255, 195) }
```

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, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 195);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
195) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.9756, 76.1639, 63.8550 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, 195) }
```

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

```
.background{ background-color: rgb(51, 255,  
195) }
```

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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