

# Converting Colors

XYZ(49.2228, 77.3121, 64.4248)

Have a look what the booklet for  
XYZ(49.2228, 77.3121, 64.4248)  
contains.

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# Color

**XYZ(49.2911, 77.3445,  
64.5556)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53FFC4
RGB	83, 255, 196
RGB Percent	33%, 100%, 77%
CMY	0.6745, 0.0000, 0.2314
CMYK	0.67, 0.00, 0.23, 0.00
HSL	159°, 100%, 66%
HSV	159°, 67%, 100%
XYZ	49.2911, 77.3445, 64.5556
YIQ	196.8460, -83.5730, -54.8130

# Conversions

## Conversions Part 2

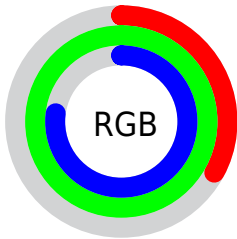
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 187, 255
Decimal	5504964
CIELab	90.48, -57.25, 15.57
CIELCh	90, 59.334, 164.788
Yxy	77.3445, 0.2578, 0.4045
Android (android.graphics.Color)	4283695044 (0xFF53FFC4)
YUV	196.8460, -0.4171, -99.8429
Hunter-Lab	87.9457, -53.8608, 18.0408

# Details

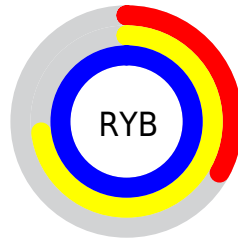
The XYZ color **49.2911, 77.3445, 64.5556** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light muted cyan. A complement of this color would be **49.2165, 29.4006, 28.6736**, and the grayscale version is **53.0172, 55.7782, 60.7425**.

A 20% lighter version of the original color is **66.0673, 85.0959, 105.8715**, and **24.8487, 41.8855, 32.3662** is the 20% darker color. If you saturate the color by 10%, you get **46.4733, 76.0036, 59.3778**, and if you desaturate by 10%, it is **52.9953, 79.1356, 70.0806**.

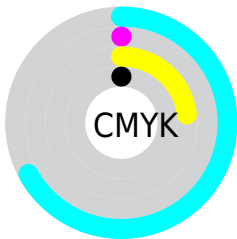
# Distribution



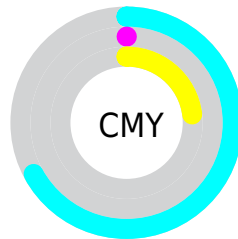
- Red (33%)
- Green (100%)
- Blue (77%)



- Red (33%)
- Yellow (73%)
- Blue (100%)



- Cyan (67%)
- Magenta (0%)
- Yellow (23%)
- Black (0%)




- Cyan (67%)
- Magenta (0%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2911, 77.3445, 64.5556 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 49.2911, 77.3445, 64.5556 by changing the saturation by 10% instead.





 49.2911, 77.3445,  
64.5556

 49.2911, 77.3445,  
64.5556


374.3852,  
485.9378, 459.4557


 35.0659, 57.5357,  
46.6518


 88.3218, 129.6257,  
113.0179


 23.8804, 41.4355,  
32.4081


 113.8580,  
162.8668, 144.4134

 15.3692, 28.6595,  
21.4060

 143.8953,  
201.3541, 181.1432

 9.1669, 18.8234,  
13.2270

 178.7990,  
245.4721, 223.6258

 4.9082, 11.5427,  
7.4525

218.9345,  
295.6050, 272.2799

 2.2277, 6.4331,  
3.6639

264.6671,

 0.7573, 3.1102,

352.1373, 327.5238

1.4429

316.3622,  
415.4535, 389.7763

■ 0.0000, 1.1895,  
0.1748

■ 0.0000, 0.0531,  
0.0000

■ 49.2911, 77.3445,  
64.5556

■ 49.2911, 77.3445,  
64.5556

■ 46.4733, 76.0036,  
59.3778

■ 52.9953, 79.1356,  
70.0806

■ 44.4429, 75.0620,  
54.5334

■ 57.6658, 81.4182,  
75.9576

■ 43.0745, 74.4552,  
50.0128

■ 63.3761, 84.2298,  
82.1961

■ 42.7841, 74.3296,  
48.9083

■ 70.1915, 87.6040,  
88.8041

■ 78.1719, 91.5717,  
95.7888

■ 87.3727, 96.1613,  
103.1576

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.



55.2019, 77.3445, 38.5406



49.2911, 77.3445, 64.5556



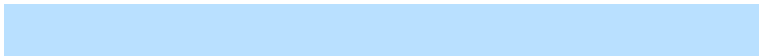
49.2493, 77.3445, 106.8229

# Triad

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



49.2911, 77.3445, 64.5556



81.0336, 77.3445, 190.4032



95.6616, 77.3445, 38.7949

# Complementary

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



49.2911, 77.3445, 64.5556



49.2165, 29.4006, 28.6736

# 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.



104.6693, 77.3445, 65.0456



49.2911, 77.3445, 64.5556



95.4839, 77.3445, 156.4742

# Square

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



49.2911, 77.3445, 64.5556



66.2835, 77.3445, 190.1340



104.6002, 77.3445, 107.5082



81.2512, 77.3445, 27.4413



# Rectangle

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



49.2911, 77.3445, 64.5556



52.4966, 77.3445, 139.9197



104.6002, 77.3445, 107.5082



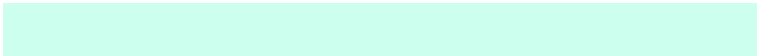
99.5026, 77.3445, 45.6909

# Sweetspot

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



49.2919, 77.3449, 64.5570



76.0219, 90.5014, 93.9705



48.6846, 78.0025, 20.6749



15.7843, 19.1286, 19.6910



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.



49.2919, 77.3449, 64.5570



45.6676, 75.6263, 57.6195



49.6928, 65.2092, 104.5753



18.2746, 20.3694, 21.7489



22.4285, 38.8680, 25.9396



2.2351, 3.8050, 2.7961



# Inverse Universe

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



49.2165, 29.4006, 28.6736



45.6634, 24.7501, 19.9183



48.2494, 32.7804, 11.9691



18.2665, 18.0899, 20.0206



22.5205, 11.4975, 6.1254

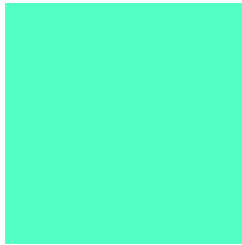


2.2417, 1.1390, 0.8541



# Previews

## White Background



This preview shows how the XYZ color 49.2911, 77.3445, 64.5556 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

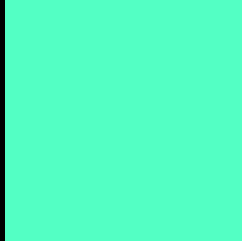
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.2911, 77.3445, 64.5556 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

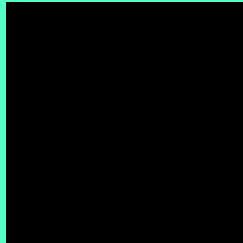
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.2911, 77.3445, 64.5556**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2911, 77.3445, 64.5556.



This preview shows how white text looks on a background with the XYZ color 49.2911, 77.3445,



# 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

49.2911, 77.3445, 64.5556

### Protanopia

71.3039, 75.7531, 55.1197

### Deuteranopia

77.3308, 75.8106, 68.3147



## Tritanopia

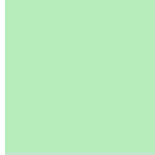
62.7277, 76.5087, 106.0693

# Trichromacy



## Original Color

49.2911, 77.3445, 64.5556



## Protanomaly

58.4935, 73.6460, 58.1459



## Deuteranomaly

60.9748, 72.6226, 66.6810



## Tritanomaly

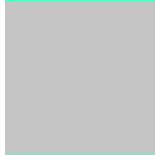
56.5570, 75.9125, 89.5136

# Monochromacy



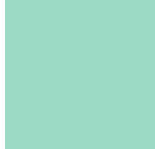
## Original Color

49.2911, 77.3445, 64.5556



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

48.8597, 61.2419, 62.0690

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2911, 77.3445, 64.5556 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(83, 255, 196)` looks like.

```
.text, #text, p{  
    color:rgb(83, 255, 196)  
}
```

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(83, 255, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 255, 196) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2911, 77.3445, 64.5556 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(83, 255, 196) }
```



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

```
.border{ border-color:rgb(83, 255, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 255, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 255, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 255, 196);  
box-shadow:4px 4px 4px 4px rgb(83, 255,  
196) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2911, 77.3445, 64.5556 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 255, 196) }
```

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

```
.background{ background-color: rgb(83, 255,  
196) }
```

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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