

# Converting Colors

XYZ(55.2671, 100.0000,  
32.1067)

Have a look what the booklet for  
XYZ(55.2671, 100.0000, 32.1067)  
contains.

<b>XYZ(42.5784, 74.6907, 27.7954)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(42.5784, 74.6907,  
27.7954)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56FF71
RGB	86, 255, 113
RGB Percent	34%, 100%, 44%
CMY	0.6627, 0.0000, 0.5568
CMYK	0.66, 0.00, 0.56, 0.00
HSL	130°, 100%, 67%
HSV	130°, 66%, 100%
XYZ	42.5784, 74.6907, 27.7954
YIQ	188.2810, -55.1420, -79.9900

# Conversions

## Conversions Part 2

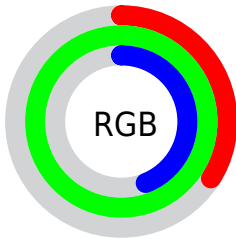
<b>Format</b>	<b>Color</b>
<b>RYB</b>	86, 232, 255
Decimal	5701489
CIELab	89.25, -71.08, 54.59
CIELCh	89, 89.621, 142.474
Yxy	74.6907, 0.2935, 0.5149
Android (android.graphics.Color)	4283891569 (0xFF56FF71)
YUV	188.2810, -37.1135, -89.7004
Hunter-Lab	86.4238, -63.3000, 41.4279

# Details

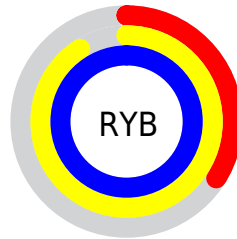
The XYZ color **42.5784, 74.6907, 27.7954** is a light color, and the websafe version is hex **66FF66**. The color can be described as light muted spring green. A complement of this color would be **58.5712, 33.5171, 76.7794**, and the grayscale version is **48.1869, 50.6964, 55.2084**.

A 20% lighter version of the original color is **55.9648, 81.1195, 49.7538**, and **20.7557, 40.2483, 10.8124** is the 20% darker color. If you saturate the color by 10%, you get **39.5673, 73.2617, 22.0844**, and if you desaturate by 10%, it is **46.7119, 76.6654, 35.0476**.

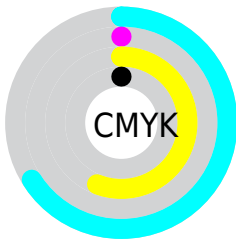
# Distribution



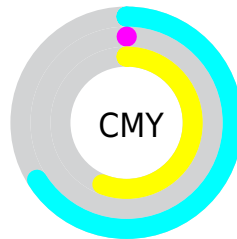
- Red (34%)
- Green (100%)
- Blue (44%)



- Red (34%)
- Yellow (91%)
- Blue (100%)



- Cyan (66%)
- Magenta (0%)
- Yellow (56%)
- Black (0%)




- Cyan (66%)
- Magenta (0%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5784, 74.6907, 27.7954 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 42.5784, 74.6907, 27.7954 by changing the saturation by 10% instead.





 42.5784, 74.6907,  
27.7954


 42.5784, 74.6907,  
27.7954


347.8260,  
476.8538, 305.3691


 29.7475, 55.3595,  
17.9338


 78.3339, 125.8744,  
57.1768


 19.7942, 39.6897,  
10.7335


 101.9894,  
158.4958, 77.5336

 12.3529, 27.2967,  
5.7760


 129.9837,  
196.3160, 102.2260

 7.0584, 17.7961,  
2.6428

 162.6822,  
239.7195, 131.6724

 3.5453, 10.8037,  
0.9144

200.4504,  
289.0906, 166.2913

 1.4483, 5.9350,  
0.0000

243.6535,

 0.2902, 2.8056,

344.8138, 206.5014

0.0000

292.6569,  
407.2734, 252.7211

■ 0.0000, 1.0311,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.5784, 74.6907,  
27.7954

■ 42.5784, 74.6907,  
27.7954

■ 39.5673, 73.2617,  
22.0844

■ 46.7119, 76.6654,  
35.0476

■ 37.5635, 72.3215,  
17.7993


■ 52.0653, 79.2339,  
43.9378


■ 36.4276, 71.8008,  
14.8146

■ 58.7262, 82.4395,  
54.5591

■ 36.1558, 71.6783,  
14.0041

■ 66.7742, 86.3215,  
66.9967

 76.2821, 90.9156,  
81.3299

 87.3178, 96.2552,  
97.6335

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.



56.0918, 74.6907, 13.0657



42.5784, 74.6907, 27.7954



36.9160, 74.6907, 66.5431

# Triad

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



42.5784, 74.6907, 27.7954



65.6223, 74.6907, 268.8189



117.3983, 74.6907, 43.4126

# Complementary

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



42.5784, 74.6907, 27.7954



58.5712, 33.5171, 76.7794

# 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.



121.4049, 74.6907, 98.1494



42.5784, 74.6907, 27.7954



88.3199, 74.6907, 251.2136

# Square

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



42.5784, 74.6907, 27.7954



48.3238, 74.6907, 219.2061



109.8599, 74.6907, 179.0150



99.8265, 74.6907, 18.3065



# Rectangle

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



42.5784, 74.6907, 27.7954



37.3254, 74.6907, 110.2283



109.8599, 74.6907, 179.0150



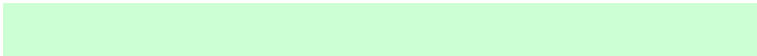
120.5050, 74.6907, 57.9759

# Sweetspot

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



42.5787, 74.6908, 27.7966



72.5643, 89.1183, 75.7628



69.9608, 88.9571, 22.2875



14.9611, 18.7993, 15.3557



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.



42.5787, 74.6908, 27.7966



38.7097, 72.8576, 20.3273



49.5447, 77.4772, 64.4787



17.8899, 20.2155, 19.7232



18.9269, 37.4674, 7.5004



1.8751, 3.6610, 0.9003



# Inverse Universe

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



58.5712, 33.5171, 76.7794



55.6630, 28.9233, 72.0412



49.6904, 29.9648, 30.0140



18.6606, 18.2476, 22.0960



27.9547, 13.6712, 34.7415

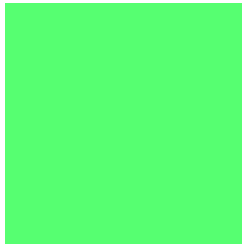


2.7538, 1.3439, 3.5508



# Previews

## White Background



This preview shows how the XYZ color 42.5784, 74.6907, 27.7954 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

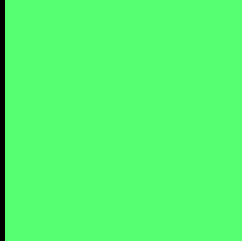
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.5784, 74.6907, 27.7954 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 42.5784, 74.6907, 27.7954**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5784, 74.6907, 27.7954.



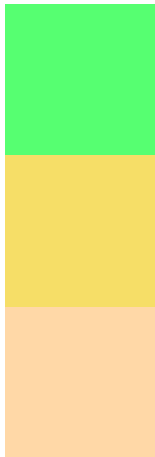
This preview shows how white text looks on a background with the XYZ color 42.5784, 74.6907,

27.7954.

# 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

42.5784, 74.6907, 27.7954

### Protanopia

66.5755, 72.8147, 23.3777

### Deuteranopia

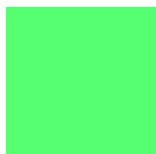
72.7709, 73.1618, 46.8454



## Tritanopia

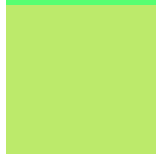
59.9522, 74.2087, 105.7716

# Trichromacy



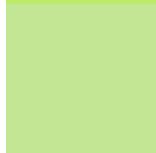
## Original Color

42.5784, 74.6907, 27.7954



## Protanomaly

52.8157, 70.5985, 24.7531



## Deuteranomaly

55.8114, 70.1695, 38.2063



## Tritanomaly

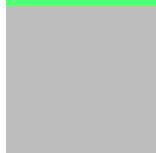
51.1562, 73.1507, 67.9232

# Monochromacy



## Original Color

42.5784, 74.6907, 27.7954



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

42.7390, 56.2395, 42.3209

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5784, 74.6907, 27.7954 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(86, 255, 113)` looks like.

```
.text, #text, p{  
    color:rgb(86, 255, 113)  
}
```

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(86, 255, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 255, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5784, 74.6907, 27.7954 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(86, 255, 113) }
```



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

```
.border{ border-color:rgb(86, 255, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 255, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 255, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 255, 113);  
box-shadow:4px 4px 4px 4px rgb(86, 255,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5784, 74.6907, 27.7954 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 255, 113) }
```

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

```
.background{ background-color: rgb(86, 255,  
113) }
```

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