

# Converting Colors

XYZ(40.4583, 73.5572, 29.5278)

Have a look what the booklet for  
XYZ(40.4583, 73.5572, 29.5278)  
contains.

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# Color

**XYZ(40.4550, 73.5557,  
29.5182)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FF77
RGB	51, 255, 119
RGB Percent	20%, 100%, 47%
CMY	0.8000, 0.0000, 0.5333
CMYK	0.80, 0.00, 0.53, 0.00
HSL	140°, 100%, 60%
HSV	140°, 80%, 100%
XYZ	40.4550, 73.5557, 29.5182
YIQ	178.5000, -77.9280, -85.5440

# Conversions

## Conversions Part 2

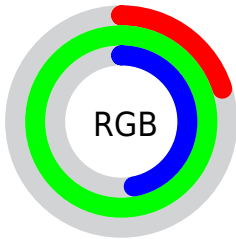
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 204, 255
Decimal	3407735
CIELab	88.71, -75.24, 51.10
CIELCh	89, 90.946, 145.817
Yxy	73.5557, 0.2819, 0.5125
Android (android.graphics.Color)	4281597815 (0xFF33FF77)
YUV	178.5000, -29.3335, -111.8175
Hunter-Lab	85.7646, -65.8900, 39.6290

# Details

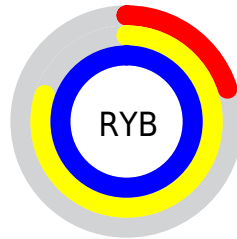
The XYZ color **40.4550, 73.5557, 29.5182** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **51.3936, 27.2158, 49.5579**, and the grayscale version is **42.7627, 44.9897, 48.9938**.

A 20% lighter version of the original color is **52.7601, 79.4013, 52.5896**, and **20.9496, 40.3259, 11.8338** is the 20% darker color. If you saturate the color by 10%, you get **38.5719, 72.6925, 24.5695**, and if you desaturate by 10%, it is **43.2248, 74.8549, 35.4641**.

# Distribution



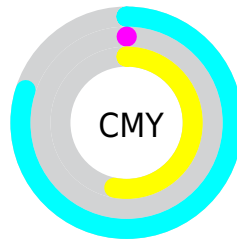
- Red (20%)
- Green (100%)
- Blue (47%)



- Red (20%)
- Yellow (80%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (53%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.4550, 73.5557, 29.5182 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 40.4550, 73.5557, 29.5182 by changing the saturation by 10% instead.




 40.4550, 73.5557,  
29.5182


 40.4550, 73.5557,  
29.5182


339.1392,  
472.9385, 313.7893


 28.0793, 54.4305,  
19.2242


 75.1358, 124.2658,  
59.9514


 18.5262, 38.9459,  
11.6540


 98.1716, 156.6194,  
80.9277

 11.4304, 26.7177,  
6.3889


 125.4915,  
194.1513, 106.3018

 6.4265, 17.3613,  
3.0104

 157.4608,  
237.2459, 136.4923

 3.1492, 10.4924,  
1.0999

194.4448,  
286.2875, 171.9178

 1.2332, 5.7266,  
0.0000

236.8090,

 0.1323, 2.6796,

341.6605, 212.9968

0.0000

284.9187,  
403.7494, 260.1477

■ 0.0000, 0.9668,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.4550, 73.5557,  
29.5182

■ 40.4550, 73.5557,  
29.5182

■ 38.5719, 72.6925,  
24.5695

■ 43.2248, 74.8549,  
35.4641

■ 37.3999, 72.1760,  
20.5554

■ 46.9899, 76.6450,  
42.4558

■ 37.3998, 72.1759,  
20.5549

■ 51.8435, 78.9732,  
50.5427

■ 57.8674, 81.8806,  
59.7700

■ 65.1352, 85.4044,  
70.1802

■ 73.7142, 89.5784,  
81.8136

■ 83.6669, 94.4341,  
94.7086

■ 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.



53.0750, 73.5557, 13.0743



40.4550, 73.5557, 29.5182



35.6660, 73.5557, 71.5821

# Triad

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



40.4550, 73.5557, 29.5182



66.8751, 73.5557, 271.6074



115.2743, 73.5557, 38.0966

# Complementary

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



40.4550, 73.5557, 29.5182



51.3936, 27.2158, 49.5579

# 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.



121.1001, 73.5557, 89.2459



40.4550, 73.5557, 29.5182



89.9802, 73.5557, 245.9207

# Square

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



40.4550, 73.5557, 29.5182



48.7548, 73.5557, 227.7385



111.0255, 73.5557, 169.1535



96.4463, 73.5557, 15.8924



# Rectangle

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



40.4550, 73.5557, 29.5182



36.6242, 73.5557, 117.8178



111.0255, 73.5557, 169.1535



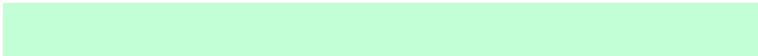
118.9671, 73.5557, 51.4213

# Sweetspot

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



40.4554, 73.5559, 29.5194



70.1201, 87.8282, 77.0094



56.8514, 82.3240, 16.0261



14.3625, 18.4846, 15.6035



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.



40.4554, 73.5559, 29.5194



37.8108, 72.3551, 22.0529



50.1766, 77.4444, 80.7107



18.0213, 20.2680, 20.4151



19.6037, 37.7381, 11.0644



1.9570, 3.6937, 1.3315



# Inverse Universe

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



51.3936, 27.2158, 49.5579



48.9321, 24.5140, 41.8902



44.0638, 24.2839, 10.9597



18.5201, 18.1914, 21.3562



25.4121, 12.6541, 21.3526

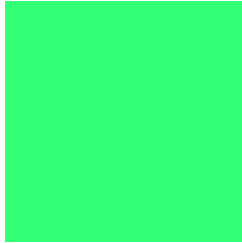


2.5250, 1.2524, 2.3463



# Previews

## White Background



This preview shows how the XYZ color 40.4550, 73.5557, 29.5182 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

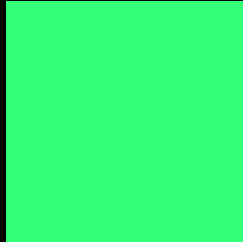
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.4550, 73.5557, 29.5182 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 40.4550, 73.5557, 29.5182

## Background



This preview shows how black text looks on a background with the XYZ color 40.4550, 73.5557, 29.5182.



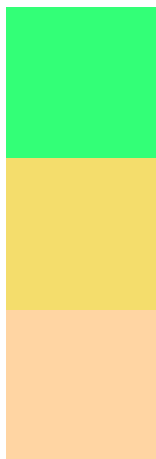
This preview shows how white text looks on a background with the XYZ color 40.4550, 73.5557,



# 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

40.4550, 73.5557, 29.5182

### Protanopia

65.8715, 72.0287, 24.6185

### Deuteranopia

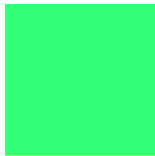
71.6451, 71.4928, 44.6737



## Tritanopia

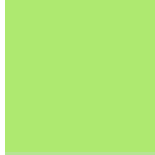
57.6778, 73.0362, 105.6652

# Trichromacy



## Original Color

40.4550, 73.5557, 29.5182



## Protanomaly

49.5191, 68.4463, 25.9308



## Deuteranomaly

52.0659, 67.4171, 37.8724



## Tritanomaly

48.8581, 71.9243, 69.7002

# Monochromacy



## Original Color

40.4550, 73.5557, 29.5182



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

37.9143, 51.9655, 39.9303

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.4550, 73.5557, 29.5182 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, 119)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 119)  
}
```

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, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 119) }
```

## Border

The CSS property to change the border of an element to XYZ 40.4550, 73.5557, 29.5182 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, 119) }
```



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

```
.border{ border-color:rgb(51, 255, 119) }
```

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, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 119);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
119) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.4550, 73.5557, 29.5182 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, 119) }
```

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

```
.background{ background-color: rgb(51, 255,  
119) }
```

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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