

# Converting Colors

XYZ(40.5390, 73.5893, 29.9605)

Have a look what the booklet for  
XYZ(40.5390, 73.5893, 29.9605)  
contains.

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# Color

**XYZ(40.5154, 73.5799,  
29.8363)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FF78
RGB	51, 255, 120
RGB Percent	20%, 100%, 47%
CMY	0.8000, 0.0000, 0.5294
CMYK	0.80, 0.00, 0.53, 0.00
HSL	140°, 100%, 60%
HSV	140°, 80%, 100%
XYZ	40.5154, 73.5799, 29.8363
YIQ	178.6140, -78.2490, -85.2330

# Conversions

## Conversions Part 2

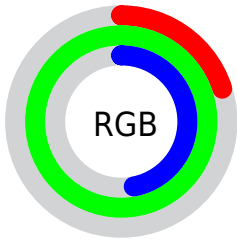
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">51, 203, 255</a>
Decimal	<a href="#">3407736</a>
CIELab	<a href="#">88.72, -75.10, 50.65</a>
CIELCh	<a href="#">89, 90.584, 146.001</a>
Yxy	<a href="#">73.5799, 0.2815, 0.5112</a>
Android (android.graphics.Color)	<a href="#">4281597816 (0xFF33FF78)</a>
YUV	<a href="#">178.6140, -28.8967, -111.9175</a>
Hunter-Lab	<a href="#">85.7787, -65.8028, 39.4223</a>

# Details

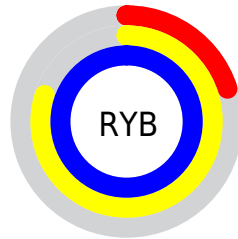
The XYZ color **40.5154, 73.5799, 29.8363** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **51.2867, 27.1730, 48.9955**, and the grayscale version is **42.8212, 45.0512, 49.0608**.

A 20% lighter version of the original color is **52.8579, 79.4404, 53.1051**, and **20.9794, 40.3378, 11.9904** is the 20% darker color. If you saturate the color by 10%, you get **38.6281, 72.7150, 24.8655**, and if you desaturate by 10%, it is **43.2872, 74.8798, 35.7931**.

# Distribution



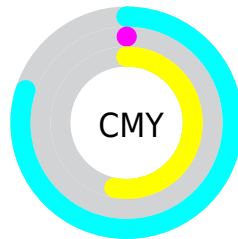
- Red (20%)
- Green (100%)
- Blue (47%)



- 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 40.5154, 73.5799, 29.8363 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 40.5154, 73.5799, 29.8363 by changing the saturation by 10% instead.





 40.5154, 73.5799,  
29.8363


 40.5154, 73.5799,  
29.8363


339.3884,  
473.0222, 315.3242


 28.1266, 54.4503,  
19.4634


 75.2271, 124.3001,  
60.4611


 18.5621, 38.9618,  
11.8254


 98.2807, 156.6595,  
81.5501

 11.4564, 26.7300,  
6.5038


 125.6199,  
194.1975, 107.0482

 6.4442, 17.3705,  
3.0801

 157.6102,  
237.2987, 137.3740

 3.1602, 10.4990,  
1.1357

194.6168,  
286.3474, 172.9459

 1.2391, 5.7311,  
0.0000

237.0052,

 0.1369, 2.6822,

341.7279, 214.1826

0.0000

285.1406,  
403.8247, 261.5025

0.0000, 0.9682,  
0.0000

0.0000, 0.0000,  
0.0000

40.5154, 73.5799,  
29.8363

40.5154, 73.5799,  
29.8363

38.6281, 72.7150,  
24.8655

43.2872, 74.8798,  
35.7931

37.4500, 72.1960,  
20.8193

47.0520, 76.6698,  
42.7831

37.4499, 72.1960,  
20.8190

51.9027, 78.9968,  
50.8548

57.9210, 81.9020,  
60.0523

■ 65.1801, 85.4223,  
70.4173

■ 73.7474, 89.5917,  
81.9890

■ 83.6850, 94.4413,  
94.8051

■ 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.



53.0545, 73.5799, 13.2631



40.5154, 73.5799, 29.8363



35.7819, 73.5799, 71.9967

# Triad

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



40.5154, 73.5799, 29.8363



67.0398, 73.5799, 270.6439



115.0129, 73.5799, 38.0295

# Complementary

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



40.5154, 73.5799, 29.8363



51.2867, 27.1730, 48.9955

# 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.



120.9049, 73.5799, 88.8239



40.5154, 73.5799, 29.8363



90.0639, 73.5799, 244.7051

# Square

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



40.5154, 73.5799, 29.8363



48.9352, 73.5799, 227.4240



110.9698, 73.5799, 168.2269



96.2196, 73.5799, 15.9637



# Rectangle

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



40.5154, 73.5799, 29.8363



36.7687, 73.5799, 118.1615



110.9698, 73.5799, 168.2269



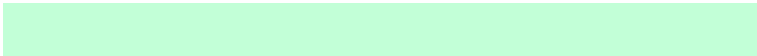
118.7164, 73.5799, 51.2631

# Sweetspot

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



40.5158, 73.5800, 29.8375



70.1585, 87.8435, 77.2118



56.8513, 82.3239, 16.0260



14.3716, 18.4882, 15.6514



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.



40.5158, 73.5800, 29.8375



37.8636, 72.3762, 22.3309



50.1766, 77.4444, 80.7106



18.0250, 20.2695, 20.4349



19.6305, 37.7488, 11.2056



1.9600, 3.6949, 1.3470



# Inverse Universe

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



51.2867, 27.1730, 48.9955



48.8161, 24.4676, 41.2791



44.0637, 24.2838, 10.9596



18.5162, 18.1898, 21.3355



25.3510, 12.6297, 21.0305

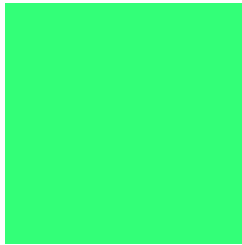


2.5194, 1.2501, 2.3166



# Previews

## White Background



This preview shows how the XYZ color 40.5154, 73.5799, 29.8363 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

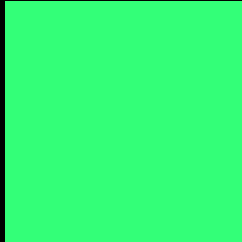
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.5154, 73.5799, 29.8363 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

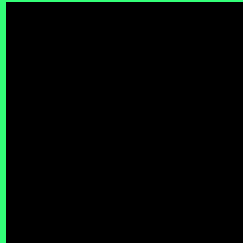
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.5154, 73.5799, 29.8363**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.5154, 73.5799, 29.8363.



This preview shows how white text looks on a background with the XYZ color 40.5154, 73.5799,



# Color Blindness Simulation

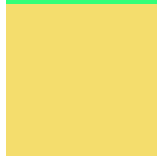
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



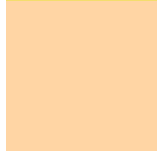
### Original Color

40.5154, 73.5799, 29.8363



### Protanopia

65.9250, 72.0501, 24.9004



### Deuteranopia

71.7351, 71.5288, 45.1476



## Tritanopia

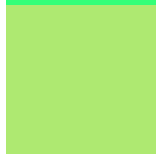
57.6778, 73.0362, 105.6652

# Trichromacy



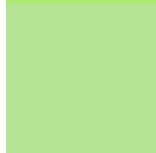
## Original Color

40.5154, 73.5799, 29.8363



## Protanomaly

49.5751, 68.4688, 26.2257



## Deuteranomaly

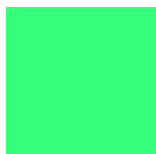
52.1448, 67.4487, 38.2876



## Tritanomaly

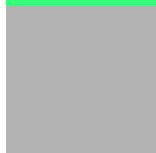
48.8581, 71.9243, 69.7002

# Monochromacy



## Original Color

40.5154, 73.5799, 29.8363



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

38.0001, 51.9998, 40.3819

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.5154, 73.5799, 29.8363 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, 120)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 120)  
}
```

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, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 40.5154, 73.5799, 29.8363 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, 120) }
```



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

```
.border{ border-color:rgb(51, 255, 120) }
```

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, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 120);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.5154, 73.5799, 29.8363 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, 120) }
```

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

```
.background{ background-color: rgb(51, 255,  
120) }
```

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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