

# Converting Colors

XYZ(40.2200, 73.4617, 28.2809)

Have a look what the booklet for  
XYZ(40.2200, 73.4617, 28.2809)  
contains.

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# Color

**XYZ(40.2198, 73.4616,  
28.2794)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FF73
RGB	51, 255, 115
RGB Percent	20%, 100%, 45%
CMY	0.8000, 0.0000, 0.5490
CMYK	0.80, 0.00, 0.55, 0.00
HSL	139°, 100%, 60%
HSV	139°, 80%, 100%
XYZ	40.2198, 73.4616, 28.2794
YIQ	178.0440, -76.6440, -86.7880

# Conversions

## Conversions Part 2

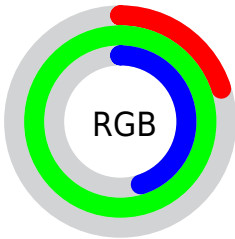
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 206, 255
Decimal	3407731
CIELab	88.67, -75.77, 52.86
CIELCh	89, 92.387, 145.102
Yxy	73.4616, 0.2833, 0.5175
Android (android.graphics.Color)	4281597811 (0xFF33FF73)
YUV	178.0440, -31.0807, -111.4176
Hunter-Lab	85.7097, -66.2299, 40.4345

# Details

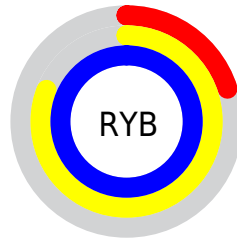
The XYZ color **40.2198, 73.4616, 28.2794** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **51.8280, 27.3896, 51.8455**, and the grayscale version is **42.5292, 44.7440, 48.7262**.

A 20% lighter version of the original color is **52.3758, 79.2476, 50.5660**, and **20.8086, 40.2694, 11.0909** is the 20% darker color. If you saturate the color by 10%, you get **38.3547, 72.6056, 23.4257**, and if you desaturate by 10%, it is **42.9802, 74.7570, 34.1753**.

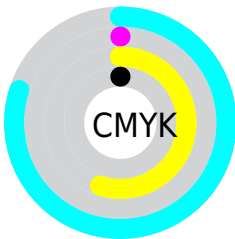
# Distribution



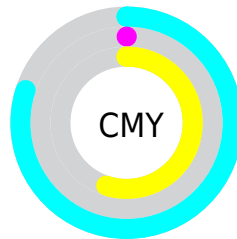
- Red (20%)
- Green (100%)
- Blue (45%)



- Red (20%)
- Yellow (81%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (55%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.2198, 73.4616, 28.2794 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 40.2198, 73.4616, 28.2794 by changing the saturation by 10% instead.





 40.2198, 73.4616,  
28.2794


 40.2198, 73.4616,  
28.2794


338.1677,  
472.6131, 307.7534


 27.8949, 54.3535,  
18.2955


 74.7803, 124.1323,  
57.9587

 18.3865, 38.8843,  
10.9907


 97.7467, 156.4637,  
78.4911

 11.3292, 26.6698,  
5.9465


 124.9909,  
193.9716, 103.3769

 6.3576, 17.3254,  
2.7443

 156.8784,  
237.0404, 133.0344

 3.1065, 10.4667,  
0.9656

193.7744,  
286.0546, 167.8823

 1.2103, 5.7095,  
0.0000

236.0444,

 0.1145, 2.6693,

341.3985, 208.3390

0.0000

284.0537,  
403.4565, 254.8233

■ 0.0000, 0.9616,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.2198, 73.4616,  
28.2794

■ 40.2198, 73.4616,  
28.2794

■ 38.3547, 72.6056,  
23.4257

■ 42.9802, 74.7570,  
34.1753

■ 37.2082, 72.0993,  
19.5457

■ 46.7453, 76.5472,  
41.1671

■ 37.2080, 72.0992,  
19.5452

■ 51.6094, 78.8795,  
49.3090

■ 57.6550, 81.7957,  
58.6503

■ 64.9564, 85.3329,  
69.2374

■ 73.5817, 89.5255,  
81.1144

■ 83.5940, 94.4050,  
94.3228

■ 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.



53.1608, 73.4616, 12.3450



40.2198, 73.4616, 28.2794



35.2116, 73.4616, 69.9498

# Triad

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



40.2198, 73.4616, 28.2794



66.2242, 73.4616, 275.4360



116.3153, 73.4616, 38.3706

# Complementary

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



40.2198, 73.4616, 28.2794



51.8280, 27.3896, 51.8455

# 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.



121.8746, 73.4616, 90.9416



40.2198, 73.4616, 28.2794



89.6471, 73.4616, 250.7763

# Square

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



40.2198, 73.4616, 28.2794



48.0449, 73.4616, 228.9714



111.2440, 73.4616, 172.8667



97.3516, 73.4616, 15.6156



# Rectangle

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



40.2198, 73.4616, 28.2794



36.0576, 73.4616, 116.4526



111.2440, 73.4616, 172.8667



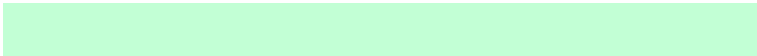
119.9641, 73.4616, 52.0600

# Sweetspot

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



40.2202, 73.4618, 28.2806



69.9671, 87.7670, 76.2041



58.5548, 83.2021, 16.1059



14.3263, 18.4701, 15.4130



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.



40.2202, 73.4618, 28.2806



37.6080, 72.2740, 20.9852



49.2887, 77.0892, 76.0348



18.0063, 20.2620, 20.3361



19.5010, 37.6970, 10.5235



1.9456, 3.6892, 1.2714



# Inverse Universe

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



51.8280, 27.3896, 51.8455



49.4066, 24.7038, 44.3884



44.3472, 24.3973, 12.4520



18.5359, 18.1977, 21.4389



25.6624, 12.7543, 22.6706

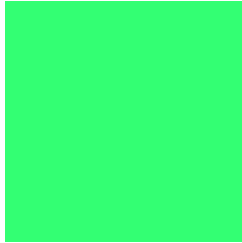


2.5481, 1.2616, 2.4675



# Previews

## White Background



This preview shows how the XYZ color 40.2198, 73.4616, 28.2794 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 40.2198, 73.4616, 28.2794 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

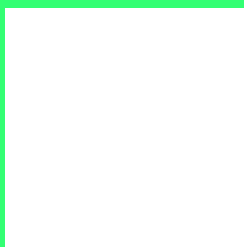
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.2198, 73.4616, 28.2794**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.2198, 73.4616, 28.2794.



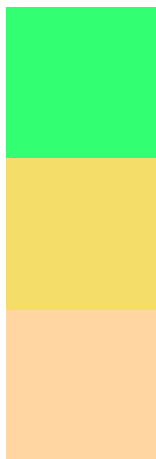
This preview shows how white text looks on a background with the XYZ color 40.2198, 73.4616,



# 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

40.2198, 73.4616, 28.2794

### Protanopia

65.6634, 71.9455, 23.5227

### Deuteranopia

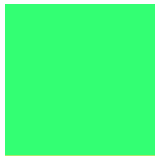
71.5558, 71.4571, 44.2036



## Tritanopia

57.6778, 73.0362, 105.6652

# Trichromacy



## Original Color

40.2198, 73.4616, 28.2794



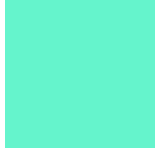
## Protanomaly

49.3012, 68.3592, 24.7836



## Deuteranomaly

51.9103, 67.3549, 37.0529



## Tritanomaly

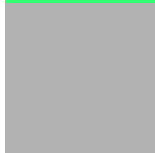
48.6166, 71.8277, 68.4285

# Monochromacy



## Original Color

40.2198, 73.4616, 28.2794



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

37.5034, 51.4147, 38.9577

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.2198, 73.4616, 28.2794 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, 115)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 115)  
}
```

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, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 40.2198, 73.4616, 28.2794 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, 115) }
```



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

```
.border{ border-color:rgb(51, 255, 115) }
```

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, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 115);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.2198, 73.4616, 28.2794 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, 115) }
```

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

```
.background{ background-color: rgb(51, 255,  
115) }
```

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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