

# Converting Colors

XYZ(40.0170, 73.2958, 31.0382)

Have a look what the booklet for  
XYZ(40.0170, 73.2958, 31.0382)  
contains.

<b>XYZ(40.0253, 73.2986, 31.1073)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(40.0253, 73.2986,  
31.1073)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF7C
RGB	33, 255, 124
RGB Percent	13%, 100%, 49%
CMY	0.8706, 0.0000, 0.5137
CMYK	0.87, 0.00, 0.51, 0.00
HSL	145°, 100%, 56%
HSV	145°, 87%, 100%
XYZ	40.0253, 73.2986, 31.1073
YIQ	173.6880, -90.2610, -87.8050

# Conversions

## Conversions Part 2

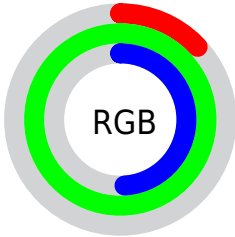
<b>Format</b>	<b>Color</b>
<b>RYB</b>	33, 190, 255
Decimal	2228092
CIELab	88.59, -76.05, 48.60
CIELCh	89, 90.251, 147.416
Yxy	73.2986, 0.2771, 0.5075
Android (android.graphics.Color)	4280418172 (0xFF21FF7C)
YUV	173.6880, -24.4962, -123.3834
Hunter-Lab	85.6146, -66.3758, 38.3877

# Details

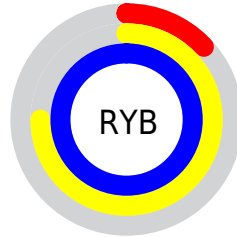
The XYZ color **40.0253, 73.2986, 31.1073** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **48.4850, 25.0284, 37.3984**, and the grayscale version is **40.2275, 42.3225, 46.0892**.

A 20% lighter version of the original color is **52.0651, 78.9856, 55.1495**, and **21.1036, 40.3874, 12.6445** is the 20% darker color. If you saturate the color by 10%, you get **38.6119, 72.6716, 26.4477**, and if you desaturate by 10%, it is **42.1984, 74.3003, 36.5629**.

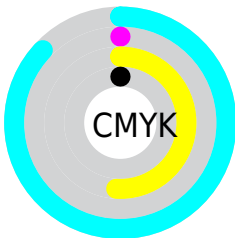
# Distribution



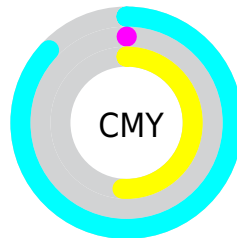
- Red (13%)
- Green (100%)
- Blue (49%)



- Red (13%)
- Yellow (75%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (51%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0253, 73.2986, 31.1073 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 40.0253, 73.2986, 31.1073 by changing the saturation by 10% instead.




 40.0253, 73.2986,  
31.1073


 40.0253, 73.2986,  
31.1073


337.3628,  
472.0491, 321.3988


 27.7426, 54.2202,  
20.4214


 74.4861, 123.9010,  
62.4905

 18.2712, 38.7777,  
12.5146


 97.3949, 156.1938,  
84.0249

 11.2457, 26.5868,  
6.9684


 124.5765,  
193.6601, 110.0126

 6.3009, 17.2632,  
3.3642

 156.3961,  
236.6844, 140.8721

 3.0713, 10.4223,  
1.2835

193.2192,  
285.6511, 177.0219

 1.1916, 5.6798,  
0.0482

235.4111,

 0.0997, 2.6514,

340.9444, 218.8806

0.0000

283.3372,  
402.9490, 266.8668

■ 0.0000, 0.9526,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.0253, 73.2986,  
31.1073

■ 40.0253, 73.2986,  
31.1073

■ 38.6119, 72.6716,  
26.4477


■ 42.1984, 74.3003,  
36.5629


■ 38.2856, 72.5302,  
25.2195


■ 45.2576, 75.7414,  
42.8490


■ 49.3041, 77.6734,  
50.0016

■ 54.4245, 80.1401,  
58.0535

 60.6952, 83.1805,  
67.0355

 68.1854, 86.8295,  
76.9768

 76.9586, 91.1195,  
87.9055

 87.0741, 96.0803,  
99.8482

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.



52.1239, 73.2986, 13.6974



40.0253, 73.2986, 31.1073



35.6715, 73.2986, 74.5276

# Triad

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



40.0253, 73.2986, 31.1073



67.7985, 73.2986, 269.3437



113.8016, 73.2986, 36.3728

# Complementary

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



40.0253, 73.2986, 31.1073



48.4850, 25.0284, 37.3984

# 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.



120.3834, 73.2986, 85.3357



40.0253, 73.2986, 31.1073



90.7640, 73.2986, 240.4385

# Square

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



40.0253, 73.2986, 31.1073



49.4770, 73.2986, 229.3431



111.2049, 73.2986, 163.2996



94.7180, 73.2986, 15.4348



# Rectangle

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



40.0253, 73.2986, 31.1073



36.8853, 73.2986, 121.3158



111.2049, 73.2986, 163.2996



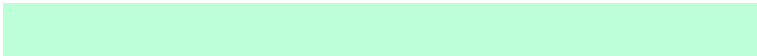
117.7028, 73.2986, 49.0486

# Sweetspot

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



40.0257, 73.2988, 31.1085



69.0507, 87.2520, 78.0845



51.8029, 79.7587, 14.1039



14.1839, 18.3848, 15.9449



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.



40.0257, 73.2988, 31.1085



38.2856, 72.5302, 25.2195



51.0669, 77.7152, 89.2505



18.0802, 20.2916, 20.7255



20.0747, 37.9265, 13.5448



2.0073, 3.7138, 1.5961



# Inverse Universe

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



48.4850, 25.0284, 37.3984



46.7832, 23.4773, 31.1199



42.4785, 22.6258, 5.7686



18.4592, 18.1670, 21.0350



24.5212, 12.2978, 16.6611

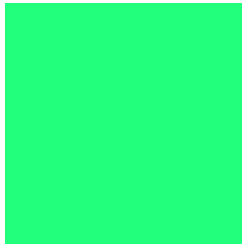


2.4418, 1.2191, 1.9082



# Previews

## White Background



This preview shows how the XYZ color 40.0253, 73.2986, 31.1073 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 40.0253, 73.2986, 31.1073 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 40.0253, 73.2986, 31.1073**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.0253, 73.2986, 31.1073.



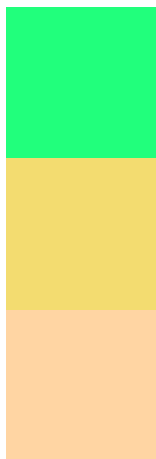
This preview shows how white text looks on a background with the XYZ color 40.0253, 73.2986,



# 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

40.0253, 73.2986, 31.1073

### Protanopia

65.4800, 71.4109, 25.6618

### Deuteranopia

71.6451, 71.4928, 44.6737



## Tritanopia

57.0820, 72.7290, 105.6373

# Trichromacy



## Original Color

40.0253, 73.2986, 31.1073



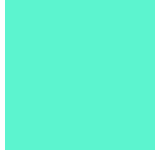
## Protanomaly

48.2276, 67.7543, 27.0590



## Deuteranomaly

50.6238, 66.6554, 38.6314



## Tritanomaly

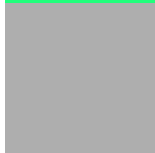
48.0268, 71.4817, 70.2976

# Monochromacy



## Original Color

40.0253, 73.2986, 31.1073



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

35.5251, 49.3231, 39.1004

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0253, 73.2986, 31.1073 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(33, 255, 124)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 124)  
}
```

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(33, 255, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 124) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0253, 73.2986, 31.1073 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(33, 255, 124) }
```



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

```
.border{ border-color:rgb(33, 255, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 255, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 124);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
124) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0253, 73.2986, 31.1073 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 124) }
```

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

```
.background{ background-color: rgb(33, 255,  
124) }
```

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