

# Converting Colors

XYZ(41.6773, 73.9579, 39.8739)

Have a look what the booklet for  
XYZ(41.6773, 73.9579, 39.8739)  
contains.

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# Color

**XYZ(41.6537, 73.9499,  
39.6822)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 21FF93                       |
| RGB         | 33, 255, 147                 |
| RGB Percent | 13%, 100%, 58%               |
| CMY         | 0.8705, 0.0000, 0.4235       |
| CMYK        | 0.87, 0.00, 0.42, 0.00       |
| HSL         | 151°, 100%, 56%              |
| HSV         | 151°, 87%, 100%              |
| XYZ         | 41.6537, 73.9499, 39.6822    |
| YIQ         | 176.3100, -97.6440, -80.6520 |

# Conversions

## Conversions Part 2

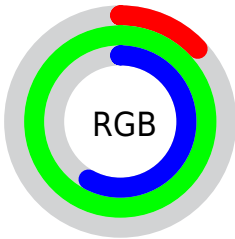
| <b>Format</b>                       | <b>Color</b>                     |
|-------------------------------------|----------------------------------|
| <b>R<sub>YB</sub></b>               | 33, 180, 255                     |
| Decimal                             | 2228115                          |
| CIE <sub>Lab</sub>                  | 88.90, -72.36, 38.00             |
| CIE <sub>LCh</sub>                  | 89, 81.733, 152.294              |
| Yxy                                 | 73.9499, 0.2682,<br>0.4762       |
| Android<br>(android.graphics.Color) | 4280418195<br>(0xFF21FF93)       |
| YUV                                 | 176.3100, -14.4498,<br>-125.6829 |
| Hunter-Lab                          | 85.9941, -64.0282,<br>32.8364    |

# Details

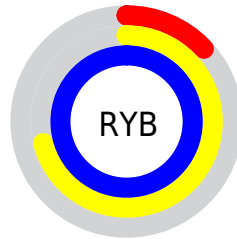
The XYZ color **41.6537, 73.9499, 39.6822** is a dark color, and the websafe version is hex **00FF99**. The color can be described as middle washed spring green. A complement of this color would be **46.5924, 24.2716, 27.4313**, and the grayscale version is **41.5396, 43.7029, 47.5925**.

A 20% lighter version of the original color is **54.4467, 79.9218, 68.4339**, and **22.0318, 40.7587, 17.5325** is the 20% darker color. If you saturate the color by 10%, you get **40.1989, 73.3064, 34.8042**, and if you desaturate by 10%, it is **43.8283, 74.9523, 45.1444**.

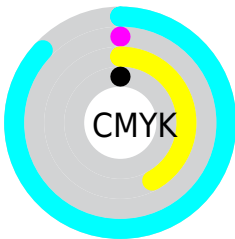
# Distribution



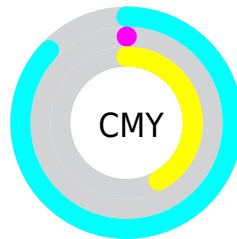
- Red (13%)
- Green (100%)
- Blue (58%)



- Red (13%)
- Yellow (71%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (42%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.6537, 73.9499, 39.6822 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 41.6537, 73.9499, 39.6822 by changing the saturation by 10% instead.





 41.6537, 73.9499,  
39.6822


 41.6537, 73.9499,  
39.6822


344.0615,  
474.3004, 360.2945


 29.0201, 54.7530,  
26.9789


 76.9437, 124.8248,  
75.9111


 19.2404, 39.2040,  
17.3251


 100.3309,  
157.2716, 100.2739

 11.9492, 26.9185,  
10.3022


 128.0333,  
194.9038, 129.3602

 6.7810, 17.5120,  
5.4915

 160.4163,  
238.1059, 163.5886

 3.3706, 10.6002,  
2.4747

197.8453,  
287.2622, 203.3778

 1.3527, 5.7987,  
0.8267

240.6855,

 0.2221, 2.7231,

342.7571, 249.1461

0.0000

289.3025,  
404.9751, 301.3121

■ 0.0000, 0.9889,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 41.6537, 73.9499,  
39.6822

■ 41.6537, 73.9499,  
39.6822

■ 40.1989, 73.3064,  
34.8042


■ 43.8283, 74.9523,  
45.1444


■ 39.8529, 73.1572,  
33.4730


■ 46.8456, 76.3767,  
51.2095


■ 50.8045, 78.2736,  
57.8990

■ 55.7885, 80.6858,  
65.2322

 61.8719, 83.6513,  
73.2272

 69.1216, 87.2042,  
81.9012

 77.5991, 91.3758,  
91.2707

 87.3612, 96.1954,  
101.3517

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.



51.8265, 73.9499, 19.0039



41.6537, 73.9499, 39.6822



38.6663, 73.9499, 84.9674

# Triad

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



41.6537, 73.9499, 39.6822



71.8238, 73.9499, 246.2598



107.6818, 73.9499, 35.1455

# Complementary

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



41.6537, 73.9499, 39.6822



46.5924, 24.2716, 27.4313

# 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.



115.6662, 73.9499, 76.2284



41.6537, 73.9499, 39.6822



92.6812, 73.9499, 212.5354

# Square

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



41.6537, 73.9499, 39.6822



54.0131, 73.9499, 220.9898



109.7220, 73.9499, 142.6834



89.5400, 73.9499, 17.3836



# Rectangle

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



41.6537, 73.9499, 39.6822



40.5897, 73.9499, 129.4353



109.7220, 73.9499, 142.6834



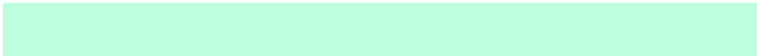
111.7817, 73.9499, 45.8012

# Sweetspot

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



41.6542, 73.9502, 39.6835



69.9569, 87.6145, 82.8564



47.5372, 77.5596, 13.9046



14.3975, 18.4702, 17.0695



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.



41.6542, 73.9502, 39.6835



39.8529, 73.1572, 33.4730



54.4375, 79.0635, 106.9994



18.1610, 20.3239, 21.1506



20.8998, 38.2565, 17.8895



2.0902, 3.7470, 2.0326



# Inverse Universe

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



46.5924, 24.2716, 27.4313



44.8816, 22.7167, 21.1067



42.0588, 22.4581, 3.5577



18.3776, 18.1344, 20.6057



23.5264, 11.8999, 11.4226

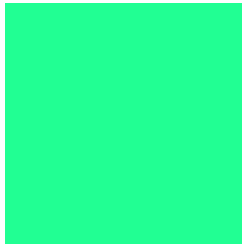


2.3456, 1.1806, 1.4015



# Previews

## White Background



This preview shows how the XYZ color 41.6537, 73.9499, 39.6822 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

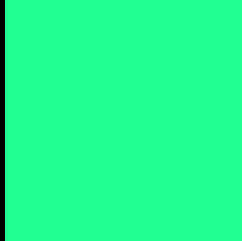
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.6537, 73.9499, 39.6822 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

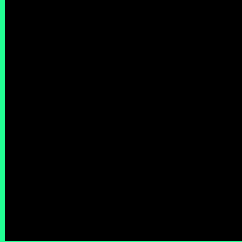
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 41.6537, 73.9499, 39.6822

## Background



This preview shows how black text looks on a background with the XYZ color 41.6537, 73.9499, 39.6822.



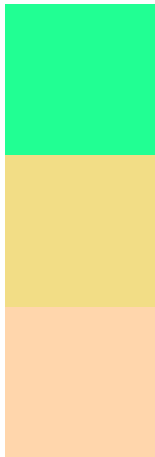
This preview shows how white text looks on a background with the XYZ color 41.6537, 73.9499,



# 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

41.6537, 73.9499, 39.6822

### Protanopia

66.7775, 72.3114, 32.9922

### Deuteranopia

72.7330, 72.3317, 49.1577



## Tritanopia

57.6778, 73.0362, 105.6652

# Trichromacy



## Original Color

41.6537, 73.9499, 39.6822



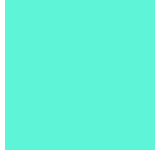
## Protanomaly

49.5250, 68.2489, 34.9892



## Deuteranomaly

52.0857, 67.6816, 44.9690



## Tritanomaly

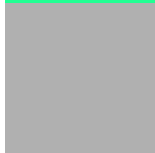
49.3614, 72.0389, 76.2690

# Monochromacy



## Original Color

41.6537, 73.9499, 39.6822



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

36.9350, 50.6643, 43.4298

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.6537, 73.9499, 39.6822 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, 147)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 147)  
}
```

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, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 147) }
```

## Border

The CSS property to change the border of an element to XYZ 41.6537, 73.9499, 39.6822 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, 147) }
```



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

```
.border{ border-color:rgb(33, 255, 147) }
```

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, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 147);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
147) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.6537, 73.9499, 39.6822 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, 147) }
```

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

```
.background{ background-color: rgb(33, 255,  
147) }
```

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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