

# Converting Colors

XYZ(40.1458, 73.5763, 21.3743)

Have a look what the booklet for  
XYZ(40.1458, 73.5763, 21.3743)  
contains.

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# Color

**XYZ(40.1200, 73.5642,  
21.3173)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47FF58
RGB	71, 255, 88
RGB Percent	28%, 100%, 35%
CMY	0.7216, 0.0000, 0.6549
CMYK	0.72, 0.00, 0.65, 0.00
HSL	126°, 100%, 64%
HSV	126°, 72%, 100%
XYZ	40.1200, 73.5642, 21.3173
YIQ	180.9460, -56.0570, -90.9450

# Conversions

## Conversions Part 2

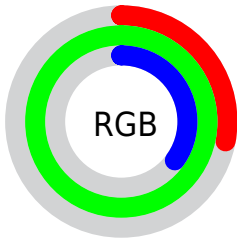
<b>Format</b>	<b>Color</b>
<b>RYB</b>	71, 239, 255
Decimal	4718424
CIELab	88.72, -76.29, 64.41
CIELCh	89, 99.848, 139.827
Yxy	73.5642, 0.2972, 0.5449
Android (android.graphics.Color)	4282908504 (0xFF47FF58)
YUV	180.9460, -45.8224, -96.4226
Hunter-Lab	85.7696, -66.6007, 45.3027

# Details

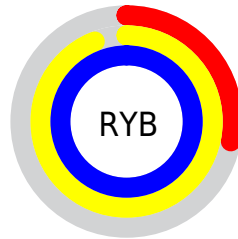
The XYZ color **40.1200, 73.5642, 21.3173** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed green. A complement of this color would be **58.9253, 31.9394, 83.9447**, and the grayscale version is **44.1537, 46.4531, 50.5874**.

A 20% lighter version of the original color is **52.1217, 79.3733, 38.9590**, and **20.1311, 39.9985, 7.5236** is the 20% darker color. If you saturate the color by 10%, you get **37.8145, 72.4694, 16.9751**, and if you desaturate by 10%, it is **43.5142, 75.1850, 27.3006**.

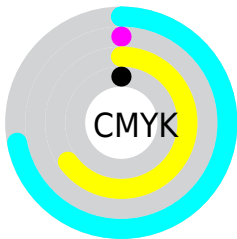
# Distribution



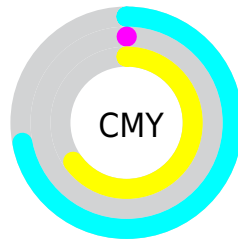
- Red (28%)
- Green (100%)
- Blue (35%)



- Red (28%)
- Yellow (94%)
- Blue (100%)



- Cyan (72%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)



- Cyan (72%)
- Magenta (0%)
- Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1200, 73.5642, 21.3173 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 40.1200, 73.5642, 21.3173 by changing the saturation by 10% instead.



40.1200, 73.5642,  
21.3173

40.1200, 73.5642,  
21.3173

337.7548,  
472.9679, 271.7962

27.8167, 54.4374,  
13.1626

74.6294, 124.2778,  
46.5026

18.3273, 38.9515,  
7.4086

97.5662, 156.6335,  
64.3704

11.2863, 26.7220,  
3.6366

124.7783,  
194.1676, 86.3129

6.3285, 17.3645,  
1.4282

156.6310,  
237.2644, 112.7488

3.0884, 10.4947,  
0.1636

193.4897,  
286.3085, 144.0965

1.2007, 5.7282,  
0.0000

235.7196,

0.1069, 2.6805,

341.6842, 180.7746

0.0000

283.6862,  
403.7759, 223.2017

■ 0.0000, 0.9673,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.1200, 73.5642,  
21.3173

■ 40.1200, 73.5642,  
21.3173

■ 37.8145, 72.4694,  
16.9751

■ 43.5142, 75.1850,  
27.3006


■ 36.4614, 71.8339,  
14.1078


■ 48.1097, 77.3870,  
35.0628


■ 35.9204, 71.5842,  
12.7646


■ 54.0057, 80.2187,  
44.7310

■ 61.2911, 83.7233,  
56.4197

 70.0468, 87.9403,  
70.2346

 80.3474, 92.9061,  
86.2739

 92.2625, 98.6546,  
104.6295

 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.



55.3333, 73.5642, 8.8441



40.1200, 73.5642, 21.3173



33.4705, 73.5642, 58.8445

# Triad

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



40.1200, 73.5642, 21.3173



62.0407, 73.5642, 295.0250



123.2867, 73.5642, 42.9509

# Complementary

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



40.1200, 73.5642, 21.3173



58.9253, 31.9394, 83.9447

# 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.



126.2601, 73.5642, 105.9389



40.1200, 73.5642, 21.3173



86.8696, 73.5642, 281.4344

# Square

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



40.1200, 73.5642, 21.3173



44.0548, 73.5642, 230.5962



111.7074, 73.5642, 200.0516



104.3300, 73.5642, 15.4210



# Rectangle

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



40.1200, 73.5642, 21.3173



33.4407, 73.5642, 104.9877



111.7074, 73.5642, 200.0516



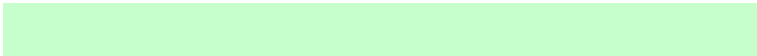
126.3324, 73.5642, 59.4916

# Sweetspot

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



40.1203, 73.5643, 21.3185



70.1959, 88.0121, 70.4682



72.7195, 90.4419, 19.5857



14.4832, 18.5773, 14.2331



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.



40.1203, 73.5643, 21.3185



37.0497, 72.1089, 15.4131



46.4280, 76.0874, 54.5347



17.8397, 20.1954, 19.4590



18.7919, 37.4134, 6.7895



1.8516, 3.6516, 0.7764



# Inverse Universe

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



58.9253, 31.9394, 83.9447



56.7109, 28.3252, 80.6955



48.8123, 27.8942, 30.6905



18.7160, 18.2697, 22.3876



29.1474, 14.1483, 41.0224

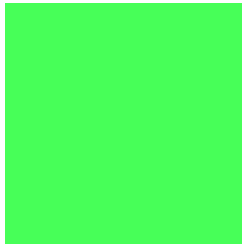


2.8583, 1.3857, 4.1010



# Previews

## White Background



This preview shows how the XYZ color 40.1200, 73.5642, 21.3173 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 40.1200, 73.5642, 21.3173 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

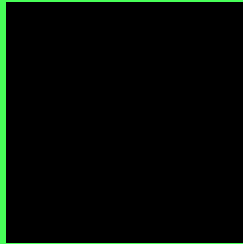
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.1200, 73.5642, 21.3173**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1200, 73.5642, 21.3173.



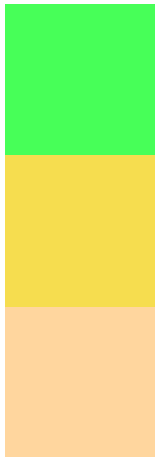
This preview shows how white text looks on a background with the XYZ color 40.1200, 73.5642,



# 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

40.1200, 73.5642, 21.3173

### Protanopia

65.2738, 71.8702, 17.8292

### Deuteranopia

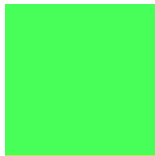
71.4581, 71.8218, 42.4445



## Tritanopia

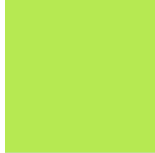
58.0071, 72.7749, 105.5974

# Trichromacy



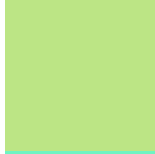
## Original Color

40.1200, 73.5642, 21.3173



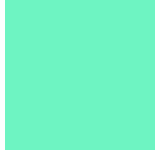
## Protanomaly

49.9533, 68.8321, 18.6358



## Deuteranomaly

52.9920, 68.4234, 32.6044



## Tritanomaly

48.5187, 71.9114, 62.3620

# Monochromacy



## Original Color

40.1200, 73.5642, 21.3173



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

38.8068, 52.8811, 35.7655

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1200, 73.5642, 21.3173 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(71, 255, 88)` looks like.

```
.text, #text, p{  
    color:rgb(71, 255, 88)  
}
```

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(71, 255, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 255, 88) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1200, 73.5642, 21.3173 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(71, 255, 88) }
```



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

```
.border{ border-color:rgb(71, 255, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 255, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 255, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 255, 88);  
box-shadow:4px 4px 4px 4px rgb(71, 255,  
88) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1200, 73.5642, 21.3173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 255, 88) }
```

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

```
.background{ background-color: rgb(71, 255,  
88) }
```

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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