

# Converting Colors

XYZ(35.7547, 65.7748, 21.7179)

Have a look what the booklet for  
XYZ(35.7547, 65.7748, 21.7179)  
contains.

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# Color

**XYZ(35.7470, 65.7682,  
21.6369)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38F35F
RGB	56, 243, 95
RGB Percent	22%, 95%, 37%
CMY	0.7804, 0.0470, 0.6274
CMYK	0.77, 0.00, 0.61, 0.05
HSL	133°, 89%, 59%
HSV	133°, 77%, 95%
XYZ	35.7470, 65.7682, 21.6369
YIQ	170.2150, -63.9440, -85.6720

# Conversions

## Conversions Part 2

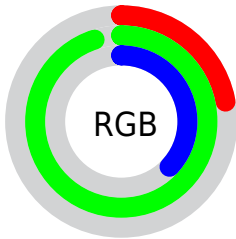
<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 211, 243
Decimal	3732319
CIELab	84.88, -73.91, 57.22
CIELCh	85, 93.466, 142.253
Yxy	65.7682, 0.2903, 0.5340
Android (android.graphics.Color)	4281922399 (0xFF38F35F)
YUV	170.2150, -37.0810, -100.1666
Hunter-Lab	81.0976, -63.2398, 40.9497

# Details

The XYZ color **35.7470, 65.7682, 21.6369** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **49.2771, 26.2435, 59.5955**, and the grayscale version is **38.5193, 40.5253, 44.1320**.

A 20% lighter version of the original color is **50.6251, 78.5473, 41.3471**, and **17.6988, 34.8379, 7.6253** is the 20% darker color. If you saturate the color by 10%, you get **33.9349, 64.9248, 17.5392**, and if you desaturate by 10%, it is **38.4364, 67.0427, 26.9049**.

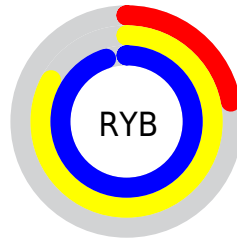
# Distribution



Red (22%)

Green (95%)

Blue (37%)



Red (22%)

Yellow (83%)

Blue (95%)

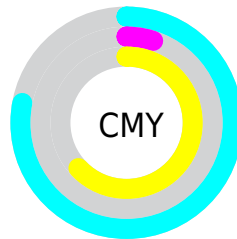


Cyan (77%)

Magenta (0%)

Yellow (61%)

Black (5%)



Cyan (78%)

Magenta (5%)

Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.7470, 65.7682, 21.6369 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 35.7470, 65.7682, 21.6369 by changing the saturation by 10% instead.



35.7470, 65.7682,  
21.6369

35.7470, 65.7682,  
21.6369

319.3039,  
445.5474, 273.5355

24.4081, 48.0843,  
13.3946

67.9678, 113.1536,  
47.0396

15.7630, 33.8936,  
7.5669

89.5804, 143.6238,  
65.0371

9.4464, 22.8119,  
3.7353

115.3483,  
179.1249, 87.1233

5.0929, 14.4547,  
1.4813

145.6367,  
220.0413, 113.7169

2.3372, 8.4376,  
0.2039

180.8112,  
266.7573, 145.2364

0.8136, 4.3762,  
0.0000

221.2370,

0.0000, 1.8861,

319.6574, 182.1003

0.0000

267.2794,  
379.1260, 224.7272

■ 0.0000, 0.5400,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 35.7470, 65.7682,  
21.6369

■ 35.7470, 65.7682,  
21.6369

■ 33.9349, 64.9248,  
17.5392

■ 38.4364, 67.0427,  
26.9049


■ 32.8716, 64.4424,  
14.5171


■ 42.0970, 68.7894,  
33.4193


■ 32.6425, 64.3401,  
13.7940


■ 46.8153, 71.0533,  
41.2547

■ 52.6669, 73.8718,  
50.4786

 59.7202, 77.2789,  
61.1539

 68.0382, 81.3059,  
73.3398

 77.6793, 85.9817,  
87.0918

 88.6984, 91.3334,  
102.4629

 91.3419, 92.5838,  
107.6640

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.4542, 65.7682, 9.0939



35.7470, 65.7682, 21.6369



30.4715, 65.7682, 57.1481

# Triad

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



35.7470, 65.7682, 21.6369



57.2327, 65.7682, 257.7260



107.7334, 65.7682, 36.1849

# Complementary

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



35.7470, 65.7682, 21.6369



49.2771, 26.2435, 59.5955

# 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.



111.5648, 65.7682, 88.3273



35.7470, 65.7682, 21.6369



79.0524, 65.7682, 240.4107

# Square

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



35.7470, 65.7682, 21.6369



40.9383, 65.7682, 207.1793



100.1096, 65.7682, 168.0835



90.5776, 65.7682, 13.6196



# Rectangle

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



35.7470, 65.7682, 21.6369



30.8136, 65.7682, 99.0116



100.1096, 65.7682, 168.0835



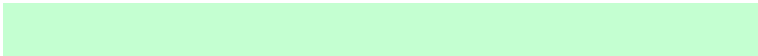
110.7570, 65.7682, 49.7976

# Sweetspot

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



35.7486, 65.7709, 21.6384



70.0731, 87.8856, 73.3215



58.1094, 77.4545, 15.6290



14.3117, 18.4788, 14.6786



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.



35.7486, 65.7709, 21.6384



37.1412, 72.1067, 17.6447



42.6421, 68.5283, 57.9392



16.4236, 18.5286, 18.2489



17.9538, 35.3264, 7.7767



1.6138, 3.1192, 0.8723



# Inverse Universe

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



49.2771, 26.2435, 59.5955



52.6463, 26.2341, 60.7255



41.3082, 23.0560, 17.6320



17.0569, 16.7056, 20.0462



25.5781, 12.5747, 28.8165

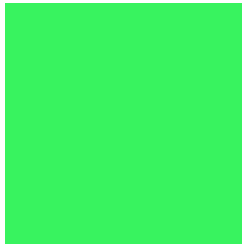


2.2844, 1.1197, 2.7238



# Previews

## White Background



This preview shows how the XYZ color 35.7470, 65.7682, 21.6369 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

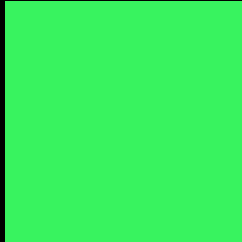
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.7470, 65.7682, 21.6369 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 35.7470, 65.7682, 21.6369**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.7470, 65.7682, 21.6369.



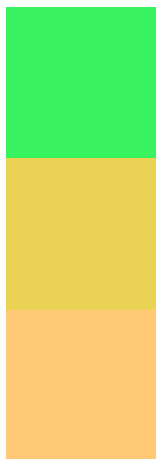
This preview shows how white text looks on a background with the XYZ color 35.7470, 65.7682,



# 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

35.7470, 65.7682, 21.6369

### Protanopia

58.6180, 64.2415, 17.9047

### Deuteranopia

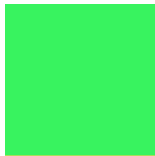
65.3967, 64.3413, 26.1119



## Tritanopia

50.6846, 65.3918, 97.1393

# Trichromacy



## Original Color

35.7470, 65.7682, 21.6369



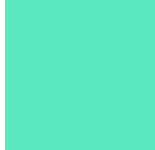
## Protanomaly

44.2866, 61.3988, 18.9682



## Deuteranomaly

46.8988, 60.3048, 23.9200



## Tritanomaly

42.7593, 64.2131, 59.4309

# Monochromacy



## Original Color

35.7470, 65.7682, 21.6369



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

33.9774, 46.5828, 33.1872

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.7470, 65.7682, 21.6369 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(56, 243, 95)` looks like.

```
.text, #text, p{  
    color:rgb(56, 243, 95)  
}
```

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(56, 243, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 243, 95) }
```

## Border

The CSS property to change the border of an element to XYZ 35.7470, 65.7682, 21.6369 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(56, 243, 95) }
```



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

```
.border{ border-color:rgb(56, 243, 95) }
```

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

Here you see how a box with a 4 pixel rgb(56, 243, 95) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 243, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 243, 95);  
box-shadow:4px 4px 4px 4px rgb(56, 243,  
95) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.7470, 65.7682, 21.6369 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 243, 95) }
```

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

```
.background{ background-color: rgb(56, 243,  
95) }
```

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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