

# Converting Colors

XYZ(35.8644, 67.9317, 15.7079)

Have a look what the booklet for  
XYZ(35.8644, 67.9317, 15.7079)  
contains.

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# Color

**XYZ(35.7612, 67.7101,  
15.7420)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38F73E
RGB	56, 247, 62
RGB Percent	22%, 97%, 24%
CMY	0.7804, 0.0314, 0.7568
CMYK	0.77, 0.00, 0.75, 0.03
HSL	122°, 92%, 59%
HSV	122°, 77%, 97%
XYZ	35.7612, 67.7101, 15.7420
YIQ	168.8010, -54.4510, -98.0270

# Conversions

## Conversions Part 2

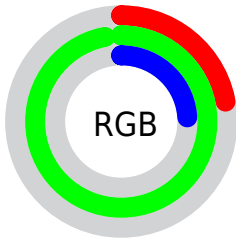
<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 241, 247
Decimal	3733310
CIELab	85.86, -78.10, 70.65
CIELCh	86, 105.313, 137.864
Yxy	67.7101, 0.3000, 0.5680
Android (android.graphics.Color)	4281923390 (0xFF38F73E)
YUV	168.8010, -52.6529, -98.9265
Hunter-Lab	82.2861, -66.4254, 46.2577

# Details

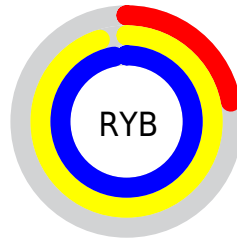
The XYZ color **35.7612, 67.7101, 15.7420** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **55.6505, 28.9542, 85.8734**, and the grayscale version is **37.8868, 39.8599, 43.4074**.

A 20% lighter version of the original color is **49.0427, 77.9688, 30.5538**, and **18.1976, 36.3952, 6.0659** is the 20% darker color. If you saturate the color by 10%, you get **34.1875, 66.9607, 12.9637**, and if you desaturate by 10%, it is **38.3069, 68.9312, 20.0757**.

# Distribution



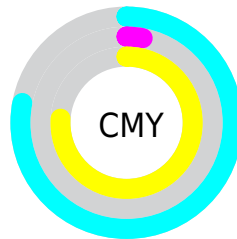
- Red (22%)
- Green (97%)
- Blue (24%)



- Red (22%)
- Yellow (95%)
- Blue (97%)



- Cyan (77%)
- Magenta (0%)
- Yellow (75%)
- Black (3%)




- Cyan (78%)
- Magenta (3%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.7612, 67.7101, 15.7420 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 35.7612, 67.7101, 15.7420 by changing the saturation by 10% instead.





 35.7612, 67.7101,  
15.7420


 35.7612, 67.7101,  
15.7420


319.3651,  
452.4682, 239.6080


 24.4191, 49.6619,  
9.1894


 67.9896, 115.9373,  
36.9103

 15.7712, 35.1448,  
4.7664


 89.6066, 146.8852,  
52.3630


 9.4522, 23.7745,  
2.0545

 115.3793,  
182.9017, 71.6195

 5.0968, 15.1664,  
0.5885

 145.6730,  
224.3713, 95.0984

 2.3395, 8.9363,  
0.0000

 180.8530,  
271.6783, 123.2181

 0.8148, 4.6996,  
0.0000

221.2848,

 0.0000, 2.0721,

325.2072, 156.3973

0.0000

267.3337,  
385.3424, 195.0544

■ 0.0000, 0.6489,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 35.7612, 67.7101,  
15.7420

■ 35.7612, 67.7101,  
15.7420

■ 34.1875, 66.9607,  
12.9637

■ 38.3069, 68.9312,  
20.0757


■ 33.4251, 66.5990,  
11.5144


■ 41.9418, 70.6745,  
26.1415


■ 33.3047, 66.5413,  
11.3115


■ 46.7715, 72.9933,  
34.0974


■ 52.8879, 75.9317,  
44.0825

 60.3741, 79.5300,  
56.2225

 69.3059, 83.8249,  
70.6333

 79.7539, 88.8502,  
87.4223

 91.7838, 94.6378,  
106.6902

 92.5521, 95.0042,  
108.0674

# Harmonies

## Analogous

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



51.1700, 67.7101, 5.8314



35.7612, 67.7101, 15.7420



28.8686, 67.7101, 49.2097

# Triad

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



35.7612, 67.7101, 15.7420



55.1034, 67.7101, 294.2594



119.2619, 67.7101, 40.0648

# Complementary

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



35.7612, 67.7101, 15.7420



55.6505, 28.9542, 85.8734

# 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.



121.0783, 67.7101, 105.2698



35.7612, 67.7101, 15.7420



79.6334, 67.7101, 285.7117

# Square

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



35.7612, 67.7101, 15.7420



38.0190, 67.7101, 222.2930



105.1683, 67.7101, 203.3002



100.6930, 67.7101, 12.6256



# Rectangle

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



35.7612, 67.7101, 15.7420



28.5188, 67.7101, 93.4013



105.1683, 67.7101, 203.3002



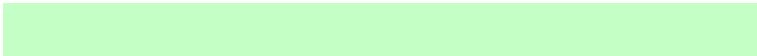
121.9940, 67.7101, 57.0261

# Sweetspot

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



35.7628, 67.7129, 15.7435



68.8316, 87.3889, 66.7836



71.2221, 86.0109, 16.5895



14.0201, 18.3622, 13.1433



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.



35.7628, 67.7129, 15.7435



36.1855, 71.7187, 12.8731



40.7832, 69.7211, 42.1804



16.3033, 18.4805, 17.6157



17.6226, 35.1939, 6.0324



1.5561, 3.0961, 0.5686



# Inverse Universe

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



55.6505, 28.9542, 85.8734



58.3263, 28.4367, 90.8502



45.1442, 24.7517, 30.5480



17.1898, 16.7588, 20.7460



28.5546, 13.7653, 44.4905

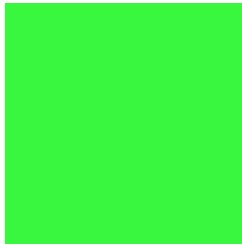


2.5166, 1.2126, 3.9470



# Previews

## White Background



This preview shows how the XYZ color 35.7612, 67.7101, 15.7420 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 35.7612, 67.7101, 15.7420 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

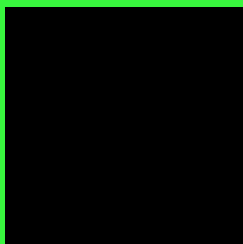
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 35.7612, 67.7101, 15.7420**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.7612, 67.7101, 15.7420.



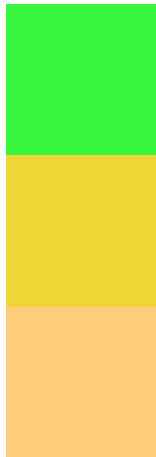
This preview shows how white text looks on a background with the XYZ color 35.7612, 67.7101,



# 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

35.7612, 67.7101, 15.7420

### Protanopia

60.0335, 66.1963, 12.9812

### Deuteranopia

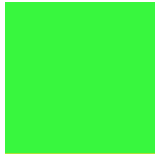
66.4080, 65.8758, 27.9541



## Tritanopia

52.2057, 66.9439, 99.7925

# Trichromacy



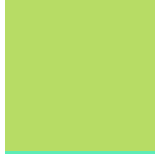
## Original Color

35.7612, 67.7101, 15.7420



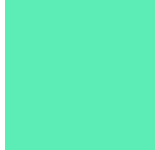
## Protanomaly

44.6523, 62.9066, 13.5301



## Deuteranomaly

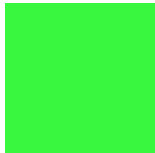
47.4706, 62.1933, 21.8145



## Tritanomaly

42.7496, 65.6024, 54.1255

# Monochromacy



## Original Color

35.7612, 67.7101, 15.7420



## Achromatopsia

37.7116, 39.6755, 43.2066



## Achromatomaly

32.8976, 46.1334, 28.2898

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.7612, 67.7101, 15.7420 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, 247, 62)` looks like.

```
.text, #text, p{  
    color:rgb(56, 247, 62)  
}
```

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, 247, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 247, 62) }
```

## Border

The CSS property to change the border of an element to XYZ 35.7612, 67.7101, 15.7420 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, 247, 62) }
```



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

```
.border{ border-color:rgb(56, 247, 62) }
```

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

Here you see how a box with a 4 pixel rgb(56, 247, 62) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 247, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 247, 62);  
box-shadow:4px 4px 4px 4px rgb(56, 247,  
62) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.7612, 67.7101, 15.7420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 247, 62) }
```

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

```
.background{ background-color: rgb(56, 247,  
62) }
```

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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