

# Converting Colors

XYZ(38.5845, 69.5415, 16.0161)

Have a look what the booklet for  
XYZ(38.5845, 69.5415, 16.0161)  
contains.

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# Color

**XYZ(38.6534, 69.6563,  
15.9652)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AF83E
RGB	90, 248, 62
RGB Percent	35%, 97%, 24%
CMY	0.6471, 0.0274, 0.7568
CMYK	0.64, 0.00, 0.75, 0.03
HSL	111°, 93%, 61%
HSV	111°, 75%, 97%
XYZ	38.6534, 69.6563, 15.9652
YIQ	179.5540, -34.4620, -91.3420

# Conversions

## Conversions Part 2

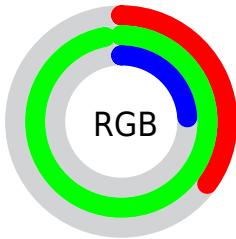
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	62, 248, 220
Decimal	5961790
CIE <sub>Lab</sub>	86.83, -72.78, 71.83
CIE <sub>LCh</sub>	87, 102.256, 135.379
Yxy	69.6563, 0.3110, 0.5605
Android (android.graphics.Color)	4284151870 (0xFF5AF83E)
YUV	179.5540, -57.9541, -78.5389
Hunter-Lab	83.4603, -63.3860, 47.0806

# Details

The XYZ color **38.6534, 69.6563, 15.9652** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **48.1858, 25.4411, 91.1817**, and the grayscale version is **43.4590, 45.7223, 49.7916**.

A 20% lighter version of the original color is **53.1158, 80.0686, 30.7444**, and **18.4135, 36.8269, 6.1378** is the 20% darker color. If you saturate the color by 10%, you get **36.3555, 68.5353, 13.0799**, and if you desaturate by 10%, it is **41.8455, 71.2066, 20.5145**.

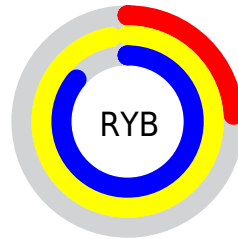
# Distribution



Red (35%)

Green (97%)

Blue (24%)



Red (24%)

Yellow (97%)

Blue (86%)

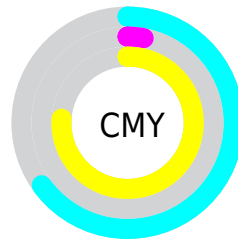


Cyan (64%)

Magenta (0%)

Yellow (75%)

Black (3%)



Cyan (65%)

Magenta (3%)

Yellow (76%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.6534, 69.6563, 15.9652 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 38.6534, 69.6563, 15.9652 by changing the saturation by 10% instead.



38.6534, 69.6563,  
15.9652

38.6534, 69.6563,  
15.9652

331.6472,  
459.3423, 240.9750

26.6697, 51.2464,  
9.3454

72.4060, 118.7185,  
37.3037

17.4606, 36.4047,  
4.8673

94.9056, 150.1395,  
52.8596

10.6608, 24.7469,  
2.1122

121.6413,  
186.6664, 72.2312

5.9048, 15.8886,  
0.6230

152.9783,  
228.6836, 95.8372

2.8274, 9.4454,  
0.0000

189.2820,  
276.5753, 124.0960

1.0632, 5.0328,  
0.0000

230.9179,

0.0000, 2.2665,

330.7261, 157.4262

0.0000

278.2512,  
391.5203, 196.2463

■ 0.0000, 0.7559,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.6534, 69.6563,  
15.9652

■ 38.6534, 69.6563,  
15.9652

■ 36.3555, 68.5353,  
13.0799

■ 41.8455, 71.2066,  
20.5145


■ 34.8503, 67.7903,  
11.6091


■ 46.0088, 73.2153,  
26.9222


■ 34.3435, 67.5370,  
11.2259

■ 51.2174, 75.7191,  
35.3610

■ 57.5366, 78.7482,  
45.9825

 65.0265, 82.3307,  
58.9240

 73.7426, 86.4925,  
74.3115

 83.7369, 91.2578,  
92.2618

 92.8588, 95.6177,  
108.1696

# Harmonies

## Analogous

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



54.7822, 69.6563, 6.6330



38.6534, 69.6563, 15.9652



31.0286, 69.6563, 47.3058

# Triad

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



38.6534, 69.6563, 15.9652



55.2998, 69.6563, 286.8822



120.9459, 69.6563, 46.0926

# Complementary

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



38.6534, 69.6563, 15.9652



48.1858, 25.4411, 91.1817

# 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.



121.1804, 69.6563, 114.0280



38.6534, 69.6563, 15.9652



79.1173, 69.6563, 285.7931

# Square

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



38.6534, 69.6563, 15.9652



38.9535, 69.6563, 212.8466



104.4707, 69.6563, 210.4143



103.8910, 69.6563, 15.5349



# Rectangle

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



38.6534, 69.6563, 15.9652



30.2614, 69.6563, 88.8231



104.4707, 69.6563, 210.4143



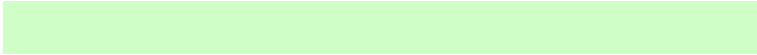
123.1090, 69.6563, 64.1950

# Sweetspot

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



38.6550, 69.6592, 15.9668



71.8853, 88.9538, 67.3530



64.3969, 69.9335, 14.6630



14.8730, 18.7945, 13.5160



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.



38.6550, 69.6592, 15.9668



37.8068, 72.5543, 12.9600



39.1944, 69.6174, 30.4427



17.2605, 19.4345, 18.3039



18.6230, 36.5188, 6.0673



1.7947, 3.4183, 0.5652



# Inverse Universe

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



48.1858, 25.4411, 91.1817



48.0630, 23.2243, 96.5573



49.2996, 26.9488, 49.0608



17.7213, 17.3845, 21.8068



23.7101, 11.1657, 48.8791

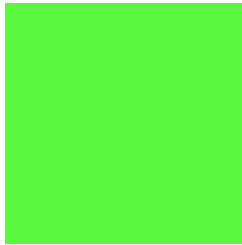


2.2633, 1.0689, 4.5302



# Previews

## White Background



This preview shows how the XYZ color 38.6534, 69.6563, 15.9652 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 38.6534, 69.6563, 15.9652 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

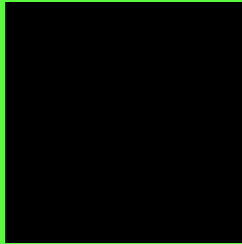
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

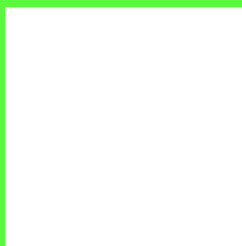
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 38.6534, 69.6563, 15.9652**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.6534, 69.6563, 15.9652.



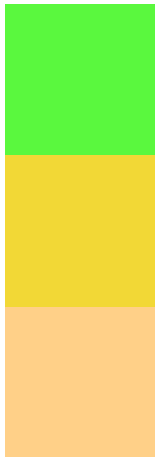
This preview shows how white text looks on a background with the XYZ color 38.6534, 69.6563,



# 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

38.6534, 69.6563, 15.9652

### Protanopia

61.8397, 68.2553, 13.4053

### Deuteranopia

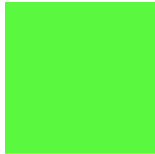
68.2398, 68.1493, 32.8501



## Tritanopia

55.3470, 68.9595, 100.8359

# Trichromacy



## Original Color

38.6534, 69.6563, 15.9652



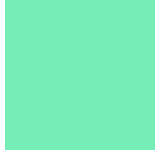
## Protanomaly

48.9754, 66.3470, 14.0959



## Deuteranomaly

51.6537, 65.4816, 24.3848



## Tritanomaly

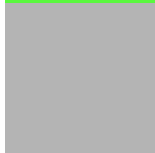
46.0638, 67.7277, 54.9009

# Monochromacy



## Original Color

38.6534, 69.6563, 15.9652



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

38.3793, 51.6718, 31.6178

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.6534, 69.6563, 15.9652 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(90, 248, 62)` looks like.

```
.text, #text, p{  
    color:rgb(90, 248, 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(90, 248, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 248, 62) }
```

## Border

The CSS property to change the border of an element to XYZ 38.6534, 69.6563, 15.9652 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(90, 248, 62) }
```



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

```
.border{ border-color:rgb(90, 248, 62) }
```

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

Here you see how a box with a 4 pixel rgb(90, 248, 62) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 248, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 248, 62);  
box-shadow:4px 4px 4px 4px rgb(90, 248,  
62) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.6534, 69.6563, 15.9652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 248, 62) }
```

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

```
.background{ background-color: rgb(90, 248,  
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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