

# Converting Colors

XYZ(37.7340, 61.8751, 9.9543)

Have a look what the booklet for  
XYZ(37.7340, 61.8751, 9.9543)  
contains.

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# Color

**XYZ(37.7818, 61.8977,  
9.9561)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82E700
RGB	130, 231, 0
RGB Percent	51%, 91%, 0%
CMY	0.4902, 0.0941, 0.9999
CMYK	0.44, 0.00, 1.00, 0.09
HSL	86°, 100%, 45%
HSV	86°, 100%, 91%
XYZ	37.7818, 61.8977, 9.9561
YIQ	174.4670, 13.9550, -93.2530

# Conversions

## Conversions Part 2

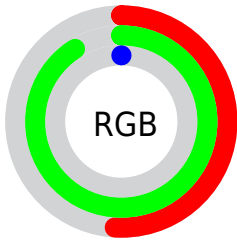
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 231, 101
Decimal	8578816
CIELab	82.86, -58.48, 80.34
CIElCh	83, 99.373, 126.050
Yxy	61.8977, 0.3446, 0.5646
Android (android.graphics.Color)	4286768896 (0xFF82E700)
YUV	174.4670, -86.0122, -38.9976
Hunter-Lab	78.6751, -51.9611, 47.5696

# Details

The XYZ color **37.7818, 61.8977, 9.9561** is a dark color, and the websafe version is hex **99FF33**. The color can be described as dark washed chartreuse. A complement of this color would be **19.7957, 8.5392, 76.2098**, and the grayscale version is **40.9003, 43.0303, 46.8600**.

A 20% lighter version of the original color is **59.0073, 83.3009, 22.2012**, and **17.5767, 31.8182, 5.2151** is the 20% darker color. If you saturate the color by 10%, you get **37.7810, 61.8993, 9.9565**, and if you desaturate by 10%, it is **39.5655, 62.8012, 10.8540**.

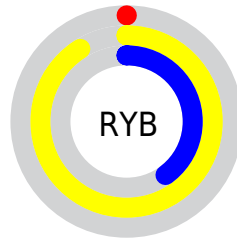
# Distribution



Red (51%)

Green (91%)

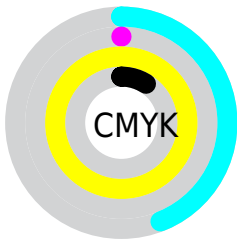
Blue (0%)



Red (0%)

Yellow (91%)

Blue (40%)

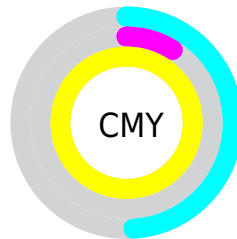


Cyan (44%)

Magenta (0%)

Yellow (100%)

Black (9%)



Cyan (49%)

Magenta (9%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7818, 61.8977, 9.9561 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 37.7818, 61.8977, 9.9561 by changing the saturation by 10% instead.





 37.7818, 61.8977,  
9.9561


 37.7818, 61.8977,  
9.9561


327.9801,  
431.5578, 200.8319


 25.9898, 44.9500,  
5.2646


 71.0796, 107.5777,  
26.3194


 16.9487, 31.4181,  
2.3419


 93.3162, 137.0788,  
38.8284


 10.2930, 20.9174,  
0.7546


 119.7650,  
171.5331, 54.7802

 5.6574, 13.0636,  
0.0000

 150.7914,  
211.3252, 74.5935

 2.6766, 7.4724,  
0.0000

 186.7608,  
256.8393, 98.6868

 0.9851, 3.7592,  
0.0000

 228.0384,

 0.0000, 1.5398,

308.4598, 127.4785

0.0000

274.9897,  
366.5712, 161.3874

■ 0.0000, 0.3165,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7818, 61.8977,  
9.9561

■ 37.7818, 61.8977,  
9.9561

■ 37.7810, 61.8993,  
9.9565

■ 39.5655, 62.8012,  
10.8540

■ 41.6900, 63.8569,  
12.7370

■ 44.2200, 65.0934,  
15.9180

■ 47.1936, 66.5263,  
20.5780

■ 50.6435, 68.1691,  
26.8695

■ 54.5987, 70.0339,  
34.9260

■ 59.0853, 72.1314,  
44.8670

■ 64.1275, 74.4718,  
56.8017

■ 69.7477, 77.0644,  
70.8311

# Harmonies

## Analogous

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



54.5995, 61.8977, 5.0015



37.7818, 61.8977, 9.9561



28.6633, 61.8977, 29.9760

# Triad

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



37.7818, 61.8977, 9.9561



43.6553, 61.8977, 242.7209



109.9885, 61.8977, 55.7197

# Complementary

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



37.7818, 61.8977, 9.9561



19.7957, 8.5392, 76.2098

# 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.



105.0346, 61.8977, 127.4660



37.7818, 61.8977, 9.9561



63.2776, 61.8977, 265.7145

# Square

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



37.7818, 61.8977, 9.9561



31.4341, 61.8977, 163.2902



86.5306, 61.8977, 214.6844



98.7787, 61.8977, 19.1043



# Rectangle

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



37.7818, 61.8977, 9.9561



26.5821, 61.8977, 59.5978



86.5306, 61.8977, 214.6844



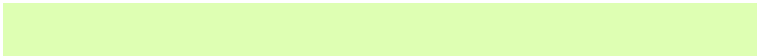
110.1882, 61.8977, 75.8466

# Sweetspot

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



37.7832, 61.9004, 9.9575



73.8316, 90.2125, 55.9046



37.5253, 26.1270, 3.0661



15.2769, 19.0637, 10.7776



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.



37.7832, 61.9004, 9.9575



47.1723, 77.4033, 12.4541



28.7815, 57.2598, 9.5362



14.9614, 16.4872, 15.2982



21.3246, 34.7747, 5.5883



1.6820, 2.6245, 0.4179



# Inverse Universe

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



19.7957, 8.5392, 76.2098



24.6702, 10.6328, 95.3598



42.6276, 20.3095, 77.2783



14.1778, 14.1939, 18.1368



11.2329, 4.8566, 42.7286

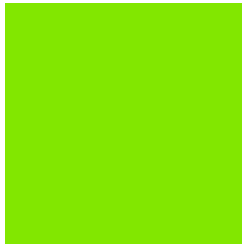


0.9351, 0.4130, 3.1624



# Previews

## White Background



This preview shows how the XYZ color 37.7818, 61.8977, 9.9561 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 37.7818, 61.8977, 9.9561 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 37.7818, 61.8977, 9.9561**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7818, 61.8977, 9.9561.



This preview shows how white text looks on a background with the XYZ color 37.7818, 61.8977,



# 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

37.7818, 61.8977, 9.9561

### Protanopia

55.0263, 61.1315, 8.8994

### Deuteranopia

61.9248, 60.7581, 14.5946



## Tritanopia

52.9665, 61.6962, 85.4609

# Trichromacy



## Original Color

37.7818, 61.8977, 9.9561



## Protanomaly

46.5486, 60.0702, 9.1413



## Deuteranomaly

49.6274, 59.0106, 11.3593



## Tritanomaly

43.4145, 60.1469, 37.3383

# Monochromacy



## Original Color

37.7818, 61.8977, 9.9561



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

36.4849, 47.4470, 22.2742

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7818, 61.8977, 9.9561 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(130, 231, 0)` looks like.

```
.text, #text, p{  
    color:rgb(130, 231, 0)  
}
```

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(130, 231, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 231, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7818, 61.8977, 9.9561 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(130, 231, 0) }
```



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

```
.border{ border-color:rgb(130, 231, 0) }
```

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

Here you see how a box with a 4 pixel rgb(130, 231, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 231, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 231, 0);  
box-shadow:4px 4px 4px 4px rgb(130, 231,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7818, 61.8977, 9.9561 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 231, 0) }
```

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

```
.background{ background-color: rgb(130,  
231, 0) }
```

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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