

# Converting Colors

XYZ(37.1887, 63.4973, 10.4027)

Have a look what the booklet for  
XYZ(37.1887, 63.4973, 10.4027)  
contains.

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# Color

**XYZ(37.3535, 63.7816,  
10.4572)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75EC04
RGB	117, 236, 4
RGB Percent	46%, 93%, 2%
CMY	0.5412, 0.0745, 0.9842
CMYK	0.50, 0.00, 0.98, 0.07
HSL	91°, 97%, 47%
HSV	91°, 98%, 93%
XYZ	37.3535, 63.7816, 10.4572
YIQ	173.9710, 3.5480, -97.3800

# Conversions

## Conversions Part 2

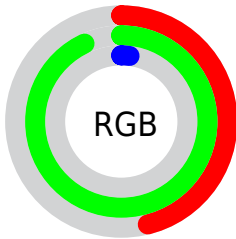
Format	Color
<a href="#">RYB</a>	<a href="#">4, 236, 123</a>
Decimal	<a href="#">7728132</a>
CIELab	<a href="#">83.85, -64.15, 80.57</a>
CIELCh	<a href="#">84, 102.991, 128.529</a>
Yxy	<a href="#">63.7816, 0.3347, 0.5716</a>
Android (android.graphics.Color)	<a href="#">4285918212 (0xFF75EC04)</a>
YUV	<a href="#">173.9710, -83.7957, -49.9636</a>
Hunter-Lab	<a href="#">79.8634, -56.2734, 48.1410</a>

# Details

The XYZ color **37.3535, 63.7816, 10.4572** 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 **23.3586, 10.3577, 80.1286**, and the grayscale version is **40.6365, 42.7528, 46.5578**.

A 20% lighter version of the original color is **56.1959, 81.8419, 22.5081**, and **17.2468, 32.8210, 5.4261** is the 20% darker color. If you saturate the color by 10%, you get **37.0579, 63.6338, 10.3294**, and if you desaturate by 10%, it is **39.2716, 64.7512, 11.5041**.

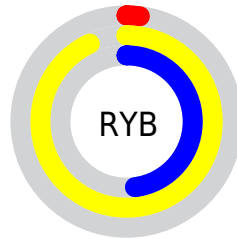
# Distribution



Red (46%)

Green (93%)

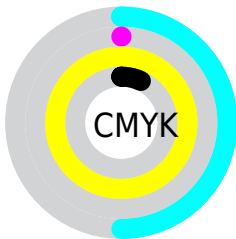
Blue (2%)



Red (2%)

Yellow (93%)

Blue (48%)

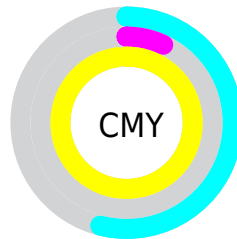


Cyan (50%)

Magenta (0%)

Yellow (98%)

Black (7%)



Cyan (54%)

Magenta (7%)


Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.3535, 63.7816, 10.4572 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 37.3535, 63.7816, 10.4572 by changing the saturation by 10% instead.





 37.3535, 63.7816,  
10.4572


 37.3535, 63.7816,  
10.4572


326.1675,  
438.4005, 204.5067

 25.6562, 46.4738,  
5.5936


 70.4264, 110.2963,  
27.2731

 16.6980, 32.6199,  
2.5348


 92.5328, 140.2721,  
40.0625


 10.1134, 21.8354,  
0.8585


 118.8396,  
175.2393, 56.3309

 5.5370, 13.7360,  
0.0000

 149.7122,  
215.5823, 76.4968

 2.6036, 7.9373,  
0.0000

 185.5160,  
261.6855, 100.9788

 0.9478, 4.0548,  
0.0000

 226.6162,

 0.0000, 1.7043,

313.9334, 130.1954

0.0000

273.3782,  
372.7102, 164.5652

■ 0.0000, 0.4264,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.3535, 63.7816,  
10.4572

■ 37.3535, 63.7816,  
10.4572

■ 37.0579, 63.6338,  
10.3294

■ 39.2716, 64.7512,  
11.5041

■ 41.6205, 65.9162,  
13.6885

■ 44.4588, 67.3030,  
17.2744

■ 47.8285, 68.9291,  
22.4470

■ 51.7658, 70.8099,  
29.3631

■ 56.3032, 72.9590,  
38.1607

■ 61.4703, 75.3890,  
48.9641

■ 67.2946, 78.1115,  
61.8867

■ 73.8015, 81.1374,  
77.0337

# Harmonies

## Analogous

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



54.3941, 63.7816, 4.7300



37.3535, 63.7816, 10.4572



28.4722, 63.7816, 33.0875

# Triad

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



37.3535, 63.7816, 10.4572



46.0478, 63.7816, 261.9905



114.6490, 63.7816, 52.5532

# Complementary

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



37.3535, 63.7816, 10.4572



23.3586, 10.3577, 80.1286

# 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.



110.8103, 63.7816, 125.7856



37.3535, 63.7816, 10.4572



67.3090, 63.7816, 280.0077

# Square

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



37.3535, 63.7816, 10.4572



32.5530, 63.7816, 179.6114



91.9732, 63.7816, 219.6972



101.4381, 63.7816, 17.1470



# Rectangle

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



37.3535, 63.7816, 10.4572



26.6945, 63.7816, 66.2976



91.9732, 63.7816, 219.6972



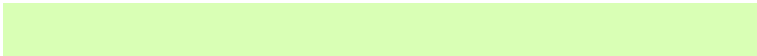
115.3647, 63.7816, 72.6952

# Sweetspot

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



37.3550, 63.7843, 10.4586



72.7395, 89.6195, 57.2075



41.3345, 31.2800, 3.9749



14.9902, 18.9103, 11.0183



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.



37.3550, 63.7843, 10.4586



44.0984, 75.8186, 12.3102



30.0694, 60.0285, 10.1176



15.5666, 17.2221, 16.0225



20.5745, 35.1510, 5.7004



1.7263, 2.8173, 0.4528



# Inverse Universe

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



23.3586, 10.3577, 80.1286



27.3820, 12.0308, 95.4867



49.7784, 23.9776, 81.3650



14.9681, 14.9288, 19.0149



12.8478, 5.6592, 44.1581

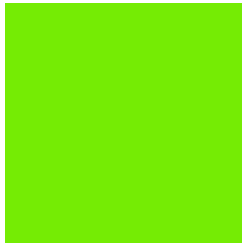


1.1199, 0.5016, 3.4727



# Previews

## White Background



This preview shows how the XYZ color 37.3535, 63.7816, 10.4572 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

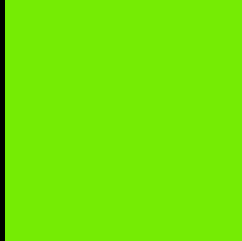
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.3535, 63.7816, 10.4572 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 37.3535, 63.7816, 10.4572**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.3535, 63.7816, 10.4572.



This preview shows how white text looks on a background with the XYZ color 37.3535, 63.7816,



# 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

37.3535, 63.7816, 10.4572

### Protanopia

56.4876, 62.6042, 9.1066

### Deuteranopia

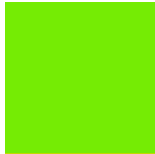
63.3224, 62.4035, 18.6052



## Tritanopia

53.0120, 63.1670, 89.5192

# Trichromacy



## Original Color

37.3535, 63.7816, 10.4572



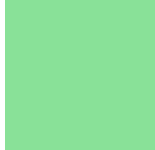
## Protanomaly

46.5627, 61.2214, 9.3915



## Deuteranomaly

49.5097, 60.3819, 13.1831



## Tritanomaly

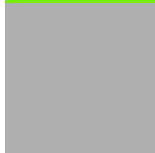
42.9092, 61.4358, 39.3025

# Monochromacy



## Original Color

37.3535, 63.7816, 10.4572



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

36.0278, 47.8747, 22.6711

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.3535, 63.7816, 10.4572 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(117, 236, 4)` looks like.

```
.text, #text, p{  
    color:rgb(117, 236, 4)  
}
```

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(117, 236, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 236, 4) }
```

## Border

The CSS property to change the border of an element to XYZ 37.3535, 63.7816, 10.4572 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(117, 236, 4) }
```



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

```
.border{ border-color:rgb(117, 236, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 236, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 236, 4); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 236, 4);  
box-shadow:4px 4px 4px 4px rgb(117, 236,  
4) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.3535, 63.7816, 10.4572 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 236, 4) }
```

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

```
.background{ background-color: rgb(117,  
236, 4) }
```

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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