

# Converting Colors

XYZ(46.9877, 38.3788, 99.5391)

Have a look what the booklet for  
XYZ(46.9877, 38.3788, 99.5391)  
contains.

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# Color

**XYZ(46.8608, 38.2628,  
99.5234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B096FF
RGB	176, 150, 255
RGB Percent	69%, 59%, 100%
CMY	0.3098, 0.4118, 0.0000
CMYK	0.31, 0.41, 0.00, 0.00
HSL	255°, 100%, 79%
HSV	255°, 41%, 100%
XYZ	46.8608, 38.2628, 99.5234
YIQ	169.7440, -18.2090, 38.1670

# Conversions

## Conversions Part 2

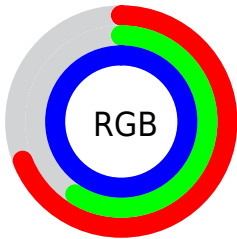
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	176, 150, 255
Decimal	11572991
CIE Lab	68.21, 32.01, -48.90
CIE LCh	68, 58.444, 303.205
Yxy	38.2628, 0.2538, 0.2072
Android (android.graphics.Color)	4289763071 (0xFFB096FF)
YUV	169.7440, 42.0312, 5.4865
Hunter-Lab	61.8569, 26.9762, -52.0935

# Details

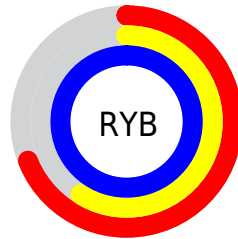
The XYZ color **46.8608, 38.2628, 99.5234** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **73.5783, 90.3801, 42.4226**, and the grayscale version is **37.8863, 39.8594, 43.4068**.

A 20% lighter version of the original color is **73.5746, 67.8982, 103.8356**, and **22.4006, 16.9940, 55.5256** is the 20% darker color. If you saturate the color by 10%, you get **39.1900, 28.9115, 98.1227**, and if you desaturate by 10%, it is **56.0326, 49.7035, 101.2482**.

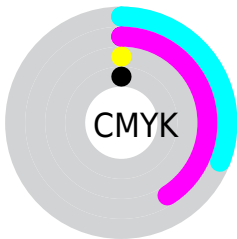
# Distribution



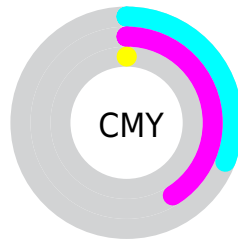
- Red (69%)
- Green (59%)
- Blue (100%)



- Red (69%)
- Yellow (59%)
- Blue (100%)



- Cyan (31%)
- Magenta (41%)
- Yellow (0%)
- Black (0%)




- Cyan (31%)
- Magenta (41%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8608, 38.2628, 99.5234 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 46.8608, 38.2628, 99.5234 by changing the saturation by 10% instead.





 46.8608, 38.2628,  
99.5234


 46.8608, 38.2628,  
99.5234


364.9168,  
338.7460, 579.8972

 33.1331, 26.1867,  
75.2879


 84.7258, 72.5108,  
162.5482

 22.3882, 16.9634,  
55.3456


 109.5938, 95.4514,  
202.1746

 14.2606, 10.2084,  
39.2780

138.9060,  
122.7824, 247.7685

 8.3850, 5.5373,  
26.6666

173.0277,  
154.8881, 299.7482

 4.3962, 2.5659,  
17.0928

212.3243,  
192.1529, 358.5324

 1.9286, 0.9095,  
10.1380

257.1611,

 0.5934, 0.0000,

234.9613, 424.5396

5.3838

307.9035,  
283.6975, 498.1883

■ 0.0000, 0.0000,  
2.4115

■ 0.0000, 0.0000,  
0.7927

■ 46.8608, 38.2628,  
99.5234

■ 46.8608, 38.2628,  
99.5234

■ 39.1900, 28.9115,  
98.1227

■ 56.0326, 49.7035,  
101.2482

■ 32.9326, 21.5162,  
97.0251

■ 66.7783, 63.3473,  
103.3154

■ 27.9978, 15.9344,  
96.2077

■ 79.1707, 79.3048,  
105.7424

■ 24.2813, 12.0016,  
95.6445

■ 93.2767, 97.6777,  
108.5452

■ 21.6613, 9.5220,  
95.3040

95.0500, 100.0000,  
108.9000

■ 20.1092, 8.2815,  
95.1464

# Harmonies

## Analogous

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



37.3587, 38.2628, 114.7820



46.8608, 38.2628, 99.5234



54.4092, 38.2628, 68.7042

# Triad

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



46.8608, 38.2628, 99.5234



44.8750, 38.2628, 10.9575



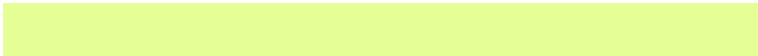
21.4973, 38.2628, 44.5385

# Complementary

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



46.8608, 38.2628, 99.5234



73.5783, 90.3801, 42.4226

# 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.



22.8331, 38.2628, 22.8492



46.8608, 38.2628, 99.5234



35.3942, 38.2628, 8.9144

# Square

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



46.8608, 38.2628, 99.5234



53.1344, 38.2628, 19.7377



27.5709, 38.2628, 12.1532



23.5609, 38.2628, 75.7320



# Rectangle

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



46.8608, 38.2628, 99.5234



56.7478, 38.2628, 47.9016



27.5709, 38.2628, 12.1532



21.5649, 38.2628, 35.9887

# Sweetspot

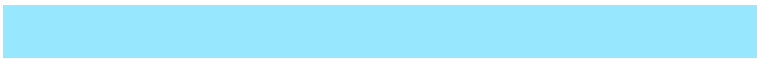
The Sweet Spot groups the original color and five complimentary colors.



46.8621, 38.2642, 99.5236



78.0847, 77.8986, 105.5282



59.0646, 70.5771, 105.1174



16.3502, 16.2040, 22.5159



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.



46.8621, 38.2642, 99.5236



40.7354, 30.7747, 98.4009



60.6357, 45.3647, 100.1682



17.4243, 17.5950, 22.7278



10.6204, 4.3855, 49.7213



1.1284, 0.4756, 4.8456



# Inverse Universe

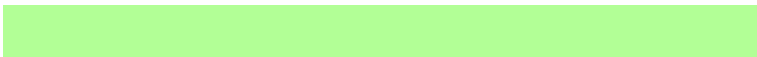
The Inverse Universe completely reimagines the original color for something new.



66.2897, 48.7308, 80.0408



62.6918, 42.6236, 75.4859



59.6259, 83.1874, 41.7697



18.5891, 18.2190, 21.7195



26.5745, 13.1191, 27.4736

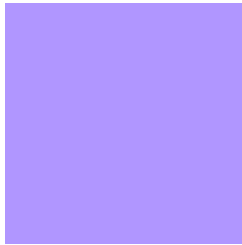


2.6309, 1.2947, 2.9036



# Previews

## White Background



This preview shows how the XYZ color 46.8608, 38.2628, 99.5234 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

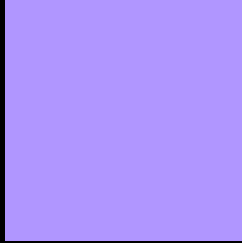
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8608, 38.2628, 99.5234 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

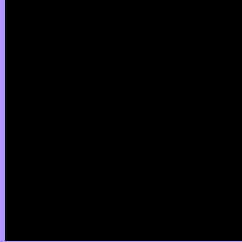
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.8608, 38.2628, 99.5234

## Background



This preview shows how black text looks on a background with the XYZ color 46.8608, 38.2628, 99.5234.



This preview shows how white text looks on a background with the XYZ color 46.8608, 38.2628,



# 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

46.8608, 38.2628, 99.5234

### Protanopia

40.8201, 38.4009, 99.8684

### Deuteranopia

39.8111, 38.7363, 97.4741



## Tritanopia

36.5724, 38.1448, 48.6151

# Trichromacy



## Original Color

46.8608, 38.2628, 99.5234

## Protanomaly

42.6713, 38.0633, 99.7057

## Deuteranomaly

41.8020, 38.1628, 98.0914

## Tritanomaly

39.5592, 37.7536, 64.2337

# Monochromacy



## Original Color

46.8608, 38.2628, 99.5234

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

40.6531, 39.1821, 60.6786

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8608, 38.2628, 99.5234 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(176, 150, 255)` looks like.

```
.text, #text, p{  
    color:rgb(176, 150, 255)  
}
```

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(176, 150, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 150, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8608, 38.2628, 99.5234 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".

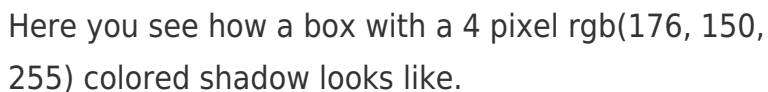
```
.border, #border, table{ border:4px solid rgb(176, 150, 255) }
```



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

```
.border{ border-color:rgb(176, 150, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(176, 150, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 150, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 150, 255);  
box-shadow:4px 4px 4px 4px rgb(176, 150,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8608, 38.2628, 99.5234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 150, 255) }
```

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

```
.background{ background-color: rgb(176,  
150, 255) }
```

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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