

# Converting Colors

XYZ(48.6307, 40.3860, 99.8399)

Have a look what the booklet for  
XYZ(48.6307, 40.3860, 99.8399)  
contains.

<b>XYZ(48.5937, 40.3660, 99.8380)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.5937, 40.3660,  
99.8380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B49BFF
RGB	180, 155, 255
RGB Percent	71%, 61%, 100%
CMY	0.2941, 0.3921, 0.0000
CMYK	0.29, 0.39, 0.00, 0.00
HSL	255°, 100%, 80%
HSV	255°, 39%, 100%
XYZ	48.5937, 40.3660, 99.8380
YIQ	173.8750, -17.2000, 36.4000

# Conversions

## Conversions Part 2

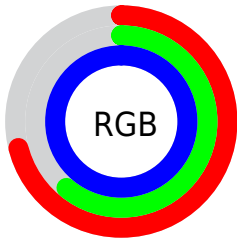
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">180, 155, 255</a>
Decimal	<a href="#">11836415</a>
CIELab	<a href="#">69.73, 30.28, -46.49</a>
CIElCh	<a href="#">70, 55.485, 303.079</a>
Yxy	<a href="#">40.3660, 0.2574, 0.2138</a>
Android (android.graphics.Color)	<a href="#">4290026495 (0xFFB49BFF)</a>
YUV	<a href="#">173.8750, 39.9946, 5.3716</a>
Hunter-Lab	<a href="#">63.5342, 25.3395, -48.6946</a>

# Details

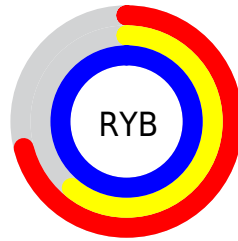
The XYZ color **48.5937, 40.3660, 99.8380** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **74.3099, 90.7097, 44.6040**, and the grayscale version is **39.9768, 42.0587, 45.8019**.

A 20% lighter version of the original color is **76.3565, 71.4903, 104.3823**, and **23.4555, 18.2629, 55.7149** is the 20% darker color. If you saturate the color by 10%, you get **40.6402, 30.6179, 98.3756**, and if you desaturate by 10%, it is **58.0602, 52.2258, 101.6282**.

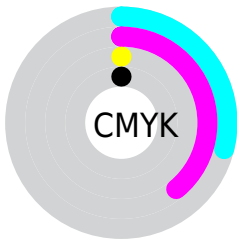
# Distribution



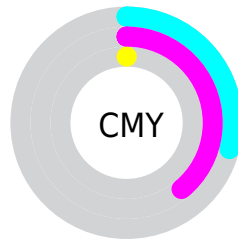
- Red (71%)
- Green (61%)
- Blue (100%)



- Red (71%)
- Yellow (61%)
- Blue (100%)



- Cyan (29%)
- Magenta (39%)
- Yellow (0%)
- Black (0%)



- Cyan (29%)
- Magenta (39%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.5937, 40.3660, 99.8380 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 48.5937, 40.3660, 99.8380 by changing the saturation by 10% instead.





 48.5937, 40.3660,  
99.8380


 48.5937, 40.3660,  
99.8380


371.6842,  
347.6638, 580.9154

 34.5105, 27.8240,  
75.5491


 87.2921, 75.7205,  
162.9845

 23.4508, 18.1930,  
55.5584


 112.6379, 99.3019,  
202.6792

 15.0492, 11.0887,  
39.4474


142.4687,  
127.3318, 248.3462

 8.9405, 6.1265,  
26.7974

177.1498,  
160.1947, 300.4041

 4.7592, 2.9222,  
17.1901

217.0466,  
198.2749, 359.2714

 2.1400, 1.0912,  
10.2067

262.5243,

 0.7108, 0.0000,

241.9569, 425.3667

5.4288

313.9484,  
291.6251, 499.1085

■ 0.0000, 0.0000,  
2.4379

■ 0.0000, 0.0000,  
0.8070

■ 48.5937, 40.3660,  
99.8380

■ 48.5937, 40.3660,  
99.8380

■ 40.6402, 30.6179,  
98.3756

■ 58.0602, 52.2258,  
101.6282

■ 34.1137, 22.8503,  
97.2203

■ 69.1112, 66.3087,  
103.7640

■ 28.9256, 16.9242,  
96.3499

■ 81.8183, 82.7236,  
106.2627

■ 24.9747, 12.6800,  
95.7389

95.0500, 100.0000,  
108.9000

■ 22.1438, 9.9295,  
95.3572

■ 20.2686, 8.3960,  
95.1601

■ 20.1482, 8.3017,  
95.1482

# Harmonies

## Analogous

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



39.3026, 40.3660, 114.2175



48.5937, 40.3660, 99.8380



55.9316, 40.3660, 70.3858

# Triad

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



48.5937, 40.3660, 99.8380



46.7355, 40.3660, 12.9426



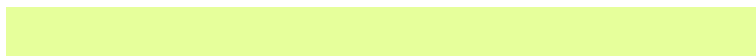
23.5672, 40.3660, 46.6646

# Complementary

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



48.5937, 40.3660, 99.8380



74.3099, 90.7097, 44.6040

# 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.



24.9279, 40.3660, 25.1350



48.5937, 40.3660, 99.8380



37.4457, 40.3660, 10.7386

# Square

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



48.5937, 40.3660, 99.8380



54.7464, 40.3660, 22.0937



29.6858, 40.3660, 14.1555



25.6309, 40.3660, 76.8796



# Rectangle

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



48.5937, 40.3660, 99.8380



58.2078, 40.3660, 50.1895



29.6858, 40.3660, 14.1555



23.6403, 40.3660, 38.2534

# Sweetspot

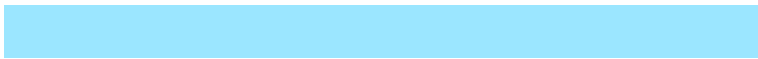
The Sweet Spot groups the original color and five complimentary colors.



48.5950, 40.3675, 99.8382



78.1083, 77.9108, 105.5293



59.8653, 70.7830, 105.1150



16.3558, 16.2068, 22.5161



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.



48.5950, 40.3675, 99.8382



42.2755, 32.6013, 98.6723



62.4053, 47.4869, 100.4845



17.4284, 17.5971, 22.7279



10.6417, 4.3965, 49.7223



1.1309, 0.4769, 4.8457



# Inverse Universe

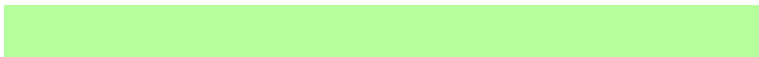
The Inverse Universe completely reimagines the original color for something new.



67.2449, 50.4170, 81.0503



63.5205, 44.0681, 76.4185



60.4997, 83.5903, 43.9577



18.5872, 18.2182, 21.7093



26.5398, 13.1052, 27.2910

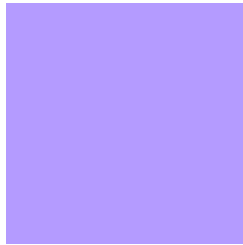


2.6278, 1.2935, 2.8872



# Previews

## White Background



This preview shows how the XYZ color 48.5937, 40.3660, 99.8380 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

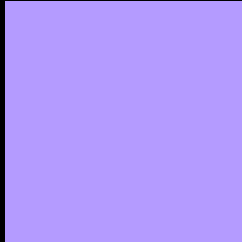
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.5937, 40.3660, 99.8380 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

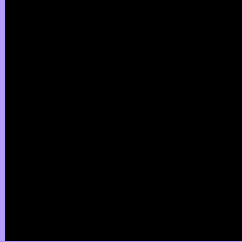
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.5937, 40.3660, 99.8380**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.5937, 40.3660, 99.8380.



This preview shows how white text looks on a background with the XYZ color 48.5937, 40.3660,



# 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

48.5937, 40.3660, 99.8380

### Protanopia

42.8678, 40.8007, 100.2237

### Deuteranopia

41.7503, 40.5551, 97.7229



## Tritanopia

38.7523, 40.3171, 51.0869

# Trichromacy



## Original Color

48.5937, 40.3660, 99.8380

## Protanomaly

44.6648, 40.3829, 100.0483

## Deuteranomaly

43.7676, 40.2221, 98.3853

## Tritanomaly

41.8826, 40.2213, 66.5288

# Monochromacy



## Original Color

48.5937, 40.3660, 99.8380

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

42.5027, 41.1793, 62.2082

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.5937, 40.3660, 99.8380 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(180, 155, 255)` looks like.

```
.text, #text, p{  
    color:rgb(180, 155, 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(180, 155, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 155, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 48.5937, 40.3660, 99.8380 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".

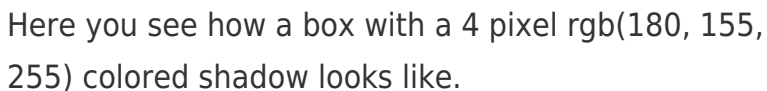
```
.border, #border, table{ border:4px solid rgb(180, 155, 255) }
```



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

```
.border{ border-color:rgb(180, 155, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(180, 155, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 155, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 155, 255);  
box-shadow:4px 4px 4px 4px rgb(180, 155,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.5937, 40.3660, 99.8380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 155, 255) }
```

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

```
.background{ background-color: rgb(180,  
155, 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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