

# Converting Colors

XYZ(39.8165, 39.0389, 47.6746)

Have a look what the booklet for  
XYZ(39.8165, 39.0389, 47.6746)  
contains.

<b>XYZ(39.7235, 38.9924, 47.5521)</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(39.7235, 38.9924,  
47.5521)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3A3B2
RGB	179, 163, 178
RGB Percent	70%, 64%, 70%
CMY	0.2980, 0.3608, 0.3020
CMYK	0.00, 0.09, 0.01, 0.30
HSL	304°, 10%, 67%
HSV	304°, 9%, 70%
XYZ	39.7235, 38.9924, 47.5521
YIQ	169.4940, 4.7210, 8.0570

# Conversions

## Conversions Part 2

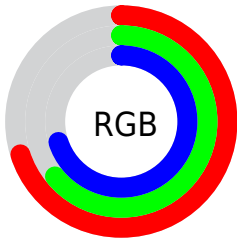
<b>Format</b>	<b>Color</b>
<b>RYB</b>	179, 163, 178
Decimal	11772850
CIELab	68.75, 8.55, -5.63
CIELCh	69, 10.232, 326.638
Yxy	38.9924, 0.3146, 0.3088
Android (android.graphics.Color)	4289962930 (0xFFB3A3B2)
YUV	169.4940, 4.1935, 8.3368
Hunter-Lab	62.4439, 4.2754, -1.4396

# Details

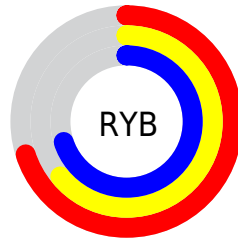
The XYZ color **39.7235, 38.9924, 47.5521** is a light color, and the websafe version is hex **999999**. A complement of this color would be **37.9267, 42.7082, 41.3686**, and the grayscale version is **37.9359, 39.9116, 43.4637**.

A 20% lighter version of the original color is **74.1836, 73.7455, 88.1663**, and **17.9903, 17.2852, 21.7902** is the 20% darker color. If you saturate the color by 10%, you get **36.6560, 33.0360, 45.9778**, and if you desaturate by 10%, it is **43.2440, 45.8522, 49.2829**.

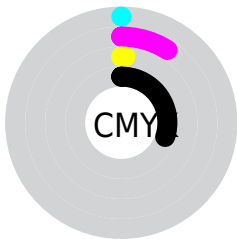
# Distribution



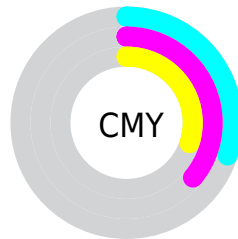
- Red (70%)
- Green (64%)
- Blue (70%)



- Red (70%)
- Yellow (64%)
- Blue (70%)



- Cyan (0%)
- Magenta (9%)
- Yellow (1%)
- Black (30%)



- Cyan (30%)
- Magenta (36%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.7235, 38.9924, 47.5521 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 39.7235, 38.9924, 47.5521 by changing the saturation by 10% instead.



■ 39.7235, 38.9924,  
47.5521

■ 39.7235, 38.9924,  
47.5521

336.1112,  
341.8582, 393.4714

■ 27.5063, 26.7538,  
33.1149

■ 74.0293, 73.6267,  
87.8957

■ 18.0924, 17.3884,  
21.9426

■ 96.8486, 96.7912,  
114.6392

■ 11.1164, 10.5118,  
13.6168

123.9326,  
124.3665, 146.3219

■ 6.2131, 5.7396,  
7.7190

155.6467,  
156.7369, 183.3622

■ 3.0170, 2.6874,  
3.8305

192.3563,  
194.2869, 226.1788

■ 1.1627, 0.9708,  
1.5328

234.4267,

■ 0.0766, 0.0000,

237.4009, 275.1901

0.2422

282.2232,  
286.4632, 330.8148

■ 0.0000, 0.0000,  
0.0000

■ 39.7235, 38.9924,  
47.5521

■ 39.7235, 38.9924,  
47.5521

■ 36.6560, 33.0360,  
45.9778

■ 43.2440, 45.8522,  
49.2829

■ 34.0194, 27.9405,  
44.5512

■ 47.2318, 53.6458,  
51.1735

■ 31.7947, 23.6672,  
43.2663

■ 51.7049, 62.4083,  
53.2304

■ 29.9600, 20.1727,  
42.1160

■ 56.6790, 72.1716,  
55.4588

■ 28.4918, 17.4095,  
41.0924

■ 62.1695, 82.9660,  
57.8640

■ 27.3636, 15.3251,  
40.1865

■ 63.0778, 84.5947,  
58.7464

■ 26.5458, 13.8597,  
39.3885

■ 63.1963, 84.6421,  
59.3700

■ 26.0032, 12.9436,  
38.6868

■ 63.3156, 84.6898,  
59.9986

■ 25.6725, 12.4496,  
38.0601

■ 63.4359, 84.7380,  
60.6320

# Harmonies

## Analogous

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



38.4750, 38.9924, 50.9377



39.7235, 38.9924, 47.5521



40.2577, 38.9924, 42.9812

# Triad

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



39.7235, 38.9924, 47.5521



37.2440, 38.9924, 34.1604



34.3465, 38.9924, 46.5819

# Complementary

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



39.7235, 38.9924, 47.5521



37.9267, 42.7082, 41.3686

# 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.



34.0383, 38.9924, 41.9353



39.7235, 38.9924, 47.5521



35.6823, 38.9924, 34.9724

# Square

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



39.7235, 38.9924, 47.5521



38.8002, 38.9924, 35.4340



34.5204, 38.9924, 37.7378



35.3748, 38.9924, 50.3495



# Rectangle

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



39.7235, 38.9924, 47.5521



40.1258, 38.9924, 39.9532



34.5204, 38.9924, 37.7378



34.1566, 38.9924, 45.0614

# Sweetspot

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



39.7246, 38.9941, 47.5529



74.7549, 76.8668, 86.9541



36.5041, 37.3222, 47.9285



16.4493, 16.8102, 19.2094



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



39.7246, 38.9941, 47.5529



69.8395, 67.2985, 84.5065



38.9636, 38.6897, 43.5451



8.8266, 8.6374, 10.5855



18.1276, 8.7686, 26.8958



0.5772, 0.2786, 0.8824



# Inverse Universe

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



39.7246, 38.9941, 47.5529



69.8395, 67.2985, 84.5065



38.6529, 42.9987, 45.1928



8.8266, 8.6374, 10.5855



18.1276, 8.7686, 26.8958

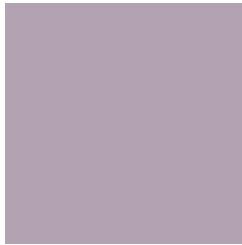


0.5772, 0.2786, 0.8824



# Previews

## White Background



This preview shows how the XYZ color 39.7235, 38.9924, 47.5521 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

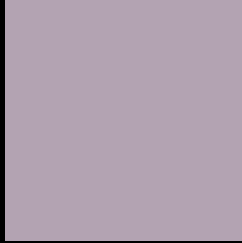
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.7235, 38.9924, 47.5521 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

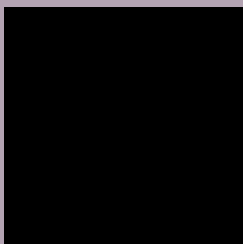
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

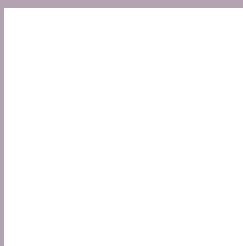
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.7235, 38.9924, 47.5521**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.7235, 38.9924, 47.5521.



This preview shows how white text looks on a background with the XYZ color 39.7235, 38.9924,



# 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

39.7235, 38.9924, 47.5521

### Protanopia

37.9933, 39.1482, 48.7339

### Deuteranopia

39.7235, 38.9924, 47.5521



## Tritanopia

39.5241, 38.9127, 46.5021

# Trichromacy



## Original Color

39.7235, 38.9924, 47.5521

## Protanomaly

38.5675, 39.1850, 48.1786

## Deuteranomaly

39.7235, 38.9924, 47.5521

## Tritanomaly

39.6234, 38.9524, 47.0252

# Monochromacy



## Original Color

39.7235, 38.9924, 47.5521

## Achromatopsia

37.7116, 39.6755, 43.2066

## Achromatomaly

38.4987, 39.5002, 44.6249

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.7235, 38.9924, 47.5521 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(179, 163, 178)` looks like.

```
.text, #text, p{  
    color:rgb(179, 163, 178)  
}
```

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(179, 163, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 163, 178) }
```

## Border

The CSS property to change the border of an element to XYZ 39.7235, 38.9924, 47.5521 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(179, 163, 178) }
```



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

```
.border{ border-color:rgb(179, 163, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 163, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 163, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 163, 178);  
box-shadow:4px 4px 4px 4px rgb(179, 163,  
178) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.7235, 38.9924, 47.5521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 163, 178) }
```

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

```
.background{ background-color: rgb(179,  
163, 178) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor