

# Converting Colors

XYZ(38.8113, 34.8112, 67.6246)

Have a look what the booklet for  
XYZ(38.8113, 34.8112, 67.6246)  
contains.

<b>XYZ(38.8529, 34.8323, 67.6263)</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(38.8529, 34.8323,  
67.6263)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A796D5
RGB	167, 150, 213
RGB Percent	65%, 59%, 84%
CMY	0.3451, 0.4118, 0.1647
CMYK	0.22, 0.30, 0.00, 0.16
HSL	256°, 43%, 71%
HSV	256°, 30%, 84%
XYZ	38.8529, 34.8323, 67.6263
YIQ	162.2650, -10.0910, 23.1970

# Conversions

## Conversions Part 2

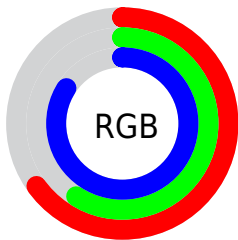
<b>Format</b>	<b>Color</b>
<b>RYB</b>	167, 150, 213
Decimal	10983125
CIELab	65.62, 19.28, -29.92
CIELCh	66, 35.592, 302.793
Yxy	34.8323, 0.2749, 0.2465
Android (android.graphics.Color)	4289173205 (0xFFA796D5)
YUV	162.2650, 25.0124, 4.1526
Hunter-Lab	59.0189, 14.2258, -26.6237

# Details

The XYZ color **38.8529, 34.8323, 67.6263** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **52.0653, 61.5271, 37.9875**, and the grayscale version is **34.3576, 36.1469, 39.3639**.

A 20% lighter version of the original color is **70.0743, 66.0937, 103.6718**, and **17.5728, 14.9697, 34.3110** is the 20% darker color. If you saturate the color by 10%, you get **32.6677, 27.0491, 66.4506**, and if you desaturate by 10%, it is **46.0534, 44.0576, 69.0280**.

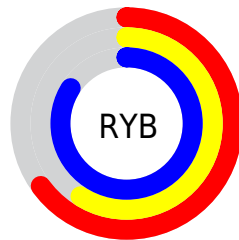
# Distribution



Red (65%)

Green (59%)

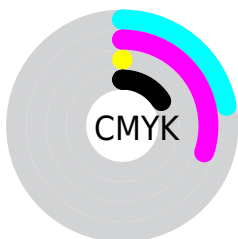
Blue (84%)



Red (65%)

Yellow (59%)

Blue (84%)

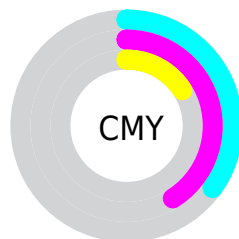


Cyan (22%)

Magenta (30%)

Yellow (0%)

Black (16%)



Cyan (35%)

Magenta (41%)

Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.8529, 34.8323, 67.6263 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 38.8529, 34.8323, 67.6263 by changing the saturation by 10% instead.



■ 38.8529, 34.8323,  
67.6263

■ 38.8529, 34.8323,  
67.6263

332.4826,  
323.8275, 470.7329

■ 26.8255, 23.5337,  
49.1290

■ 72.7091, 67.2259,  
117.4665

■ 17.5781, 14.9881,  
34.3555

■ 95.2685, 89.0897,  
149.6465

■ 10.7454, 8.8110,  
22.8873

122.0694,  
115.2440, 187.2245

■ 5.9619, 4.6181,  
14.3058

153.4771,  
146.0733, 230.6190

■ 2.8624, 2.0250,  
8.1925

189.8569,  
181.9619, 280.2485

■ 1.0814, 0.6219,  
4.1288

231.5742,

■ 0.0095, 0.0000,

223.2942, 336.5317

1.6963

278.9943,  
270.4546, 399.8869

■ 0.0000, 0.0000,  
0.3582

■ 0.0000, 0.0000,  
0.0000

■ 38.8529, 34.8323,  
67.6263

■ 38.8529, 34.8323,  
67.6263

■ 32.6677, 27.0491,  
66.4506

■ 46.0534, 44.0576,  
69.0280

■ 27.4468, 20.6295,  
65.4866

■ 54.3099, 54.7895,  
70.6643

■ 23.1399, 15.4939,  
64.7224

■ 63.6651, 67.0937,  
72.5462

■ 19.6906, 11.5528,  
64.1435

■ 74.1582, 81.0307,  
74.6833

■ 17.0354, 8.7044,  
63.7336

■ 85.3448, 95.6945,  
76.9241

■ 15.1011, 6.8292,  
63.4736

■ 89.0103, 97.5841,  
77.0956

■ 13.7728, 5.7273,  
63.3309

■ 13.7248, 5.6880,  
63.3259

# Harmonies

## Analogous

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



33.5990, 34.8323, 74.5430



38.8529, 34.8323, 67.6263



42.8719, 34.8323, 52.6643

# Triad

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



38.8529, 34.8323, 67.6263



37.9171, 34.8323, 17.6581



24.0506, 34.8323, 39.3459

# Complementary

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



38.8529, 34.8323, 67.6263



52.0653, 61.5271, 37.9875

# 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.



24.9504, 34.8323, 26.2318



38.8529, 34.8323, 67.6263



32.6199, 34.8323, 15.8327

# Square

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



38.8529, 34.8323, 67.6263



42.2929, 34.8323, 24.3780



27.9576, 34.8323, 18.5138



25.3581, 34.8323, 55.7450



# Rectangle

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



38.8529, 34.8323, 67.6263



44.1101, 34.8323, 41.6527



27.9576, 34.8323, 18.5138



24.1052, 34.8323, 34.4293

# Sweetspot

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



38.8541, 34.8337, 67.6271



82.2621, 83.1805, 106.3275



44.3741, 50.8594, 70.4294



17.1927, 17.2618, 22.6757



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.



38.8541, 34.8337, 67.6271



52.8341, 45.3272, 100.5721



46.2855, 38.6648, 67.9749



12.0539, 12.1692, 15.6511



8.4676, 3.5177, 38.6859



0.5899, 0.2530, 2.3371



# Inverse Universe

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



48.3118, 39.9457, 57.3899



69.2430, 54.2065, 82.3538



44.7551, 57.7586, 37.6454



12.8034, 12.5728, 14.9047



20.4476, 10.1154, 20.1930



1.2670, 0.6236, 1.3955



# Previews

## White Background



This preview shows how the XYZ color 38.8529, 34.8323, 67.6263 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

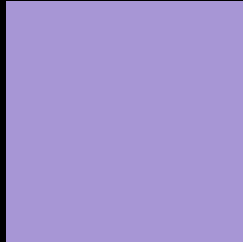
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.8529, 34.8323, 67.6263 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 38.8529, 34.8323, 67.6263**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.8529, 34.8323, 67.6263.



This preview shows how white text looks on a background with the XYZ color 38.8529, 34.8323,



# 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

38.8529, 34.8323, 67.6263

### Protanopia

35.8277, 34.8911, 71.8642

### Deuteranopia

35.7947, 34.9784, 67.1523



## Tritanopia

33.8756, 34.7649, 43.4529

# Trichromacy



## Original Color

38.8529, 34.8323, 67.6263

## Protanomaly

36.6577, 34.6050, 70.3930

## Deuteranomaly

36.7657, 34.7347, 67.0541

## Tritanomaly

35.4846, 34.6692, 51.2760

# Monochromacy



## Original Color

38.8529, 34.8323, 67.6263

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

35.8772, 35.6824, 48.7125

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.8529, 34.8323, 67.6263 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(167, 150, 213)` looks like.

```
.text, #text, p{  
    color:rgb(167, 150, 213)  
}
```

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(167, 150, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 150, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 38.8529, 34.8323, 67.6263 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(167, 150, 213) }
```



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

```
.border{ border-color:rgb(167, 150, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 150, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 150, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 150, 213);  
box-shadow:4px 4px 4px 4px rgb(167, 150,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.8529, 34.8323, 67.6263 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 150, 213) }
```

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

```
.background{ background-color: rgb(167,  
150, 213) }
```

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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