

# Converting Colors

XYZ(38.4994, 31.1254, 51.6564)

Have a look what the booklet for  
XYZ(38.4994, 31.1254, 51.6564)  
contains.

<b>XYZ(38.3146, 30.9522, 51.5319)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(38.3146, 30.9522,  
51.5319)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD84BC
RGB	189, 132, 188
RGB Percent	74%, 52%, 74%
CMY	0.2588, 0.4823, 0.2627
CMYK	0.00, 0.30, 0.01, 0.26
HSL	301°, 30%, 63%
HSV	301°, 30%, 74%
XYZ	38.3146, 30.9522, 51.5319
YIQ	155.4270, 15.9960, 29.5000

# Conversions

## Conversions Part 2

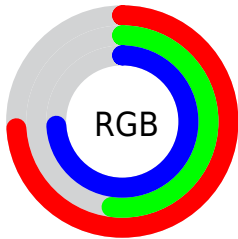
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	189, 132, 188
Decimal	12420284
CIE Lab	62.47, 31.14, -20.57
CIE LCh	62, 37.318, 326.546
Yxy	30.9522, 0.3172, 0.2562
Android (android.graphics.Color)	4290610364 (0xFFBD84BC)
YUV	155.4270, 16.0585, 29.4435
Hunter-Lab	55.6347, 25.5690, -15.9733

# Details

The XYZ color **38.3146, 30.9522, 51.5319** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **31.9482, 42.9951, 28.8071**, and the grayscale version is **31.2718, 32.9004, 35.8285**.

A 20% lighter version of the original color is **71.8941, 61.2423, 93.6197**, and **17.3073, 12.7850, 24.4772** is the 20% darker color. If you saturate the color by 10%, you get **35.9448, 26.2691, 50.5661**, and if you desaturate by 10%, it is **41.1508, 36.5667, 52.6543**.

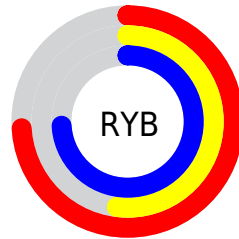
# Distribution



Red (74%)

Green (52%)

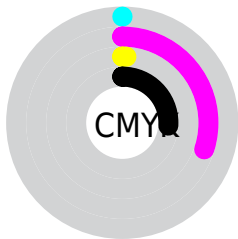
Blue (74%)



Red (74%)

Yellow (52%)

Blue (74%)

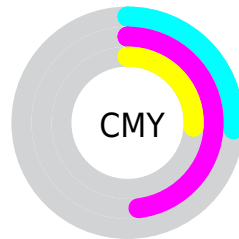


Cyan (0%)

Magenta (30%)

Yellow (1%)

Black (26%)



Cyan (26%)

Magenta (48%)


Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.3146, 30.9522, 51.5319 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 38.3146, 30.9522, 51.5319 by changing the saturation by 10% instead.





 38.3146, 30.9522,  
51.5319

 38.3146, 30.9522,  
51.5319


330.2252,  
306.3180, 409.5322


 26.4053, 20.5625,  
36.2524


 71.8909, 61.1648,  
93.8601

 17.2613, 12.8045,  
24.3380


 94.2885, 81.7565,  
121.7458

 10.5175, 7.2941,  
15.3700

 120.9130,  
106.5175, 154.6708

 5.8083, 3.6467,  
8.9300

152.1297,  
135.8324, 193.0535

 2.7684, 1.4780,  
4.5993

188.3039,  
170.0855, 237.3124

 1.0325, 0.2731,  
1.9596

229.8009,

 0.0000, 0.0000,

209.6612, 287.8662

0.5302

276.9863,  
254.9439, 345.1332

■ 0.0000, 0.0000,  
0.0000

■ 38.3146, 30.9522,  
51.5319

■ 38.3146, 30.9522,  
51.5319

■ 35.9448, 26.2691,  
50.5661

■ 41.1508, 36.5667,  
52.6543

■ 34.0132, 22.4631,  
49.7464

■ 44.4735, 43.1548,  
53.9389

■ 32.4935, 19.4806,  
49.0644


■ 48.3055, 50.7612,  
55.3937


■ 31.3551, 17.2605,  
48.5099


■ 52.6671, 59.4266,  
57.0254


■ 30.5632, 15.7334,  
48.0714


■ 57.5775, 69.1895,  
58.8404


 30.0768, 14.8170,  
47.7350

 63.0549, 80.0865,  
60.8449

 29.8159, 14.3507,  
47.4769

 66.0761, 86.0708,  
62.0310

 66.1125, 86.0853,  
62.2227

 66.1490, 86.0999,  
62.4147

# Harmonies

## Analogous

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



33.9893, 30.9522, 65.3126



38.3146, 30.9522, 51.5319



40.2491, 30.9522, 35.4099

# Triad

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



38.3146, 30.9522, 51.5319



30.0097, 30.9522, 12.8251



21.5394, 30.9522, 47.7652

# Complementary

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



38.3146, 30.9522, 51.5319



31.9482, 42.9951, 28.8071

# 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.



20.7302, 30.9522, 32.0493



38.3146, 30.9522, 51.5319



25.2782, 30.9522, 14.4031

# Square

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



38.3146, 30.9522, 51.5319



35.1204, 30.9522, 15.3776



22.0195, 30.9522, 20.5470



24.3709, 30.9522, 62.7357



# Rectangle

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



38.3146, 30.9522, 51.5319



39.7759, 30.9522, 26.3669



22.0195, 30.9522, 20.5470



21.0370, 30.9522, 42.2842

# Sweetspot

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



38.3156, 30.9536, 51.5326



80.3042, 78.5848, 96.8533



27.1030, 25.1607, 51.5727



17.0676, 16.4997, 20.7508



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



38.3156, 30.9536, 51.5326



65.8040, 49.8660, 91.1516



35.5445, 29.8451, 36.9403



9.9225, 9.6933, 11.9811



20.0640, 9.6568, 31.9602



0.7882, 0.3792, 1.2642



# Inverse Universe

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



38.3156, 30.9536, 51.5326



65.8040, 49.8660, 91.1516



34.1873, 43.8907, 40.5978



9.9225, 9.6933, 11.9811



20.0640, 9.6568, 31.9602

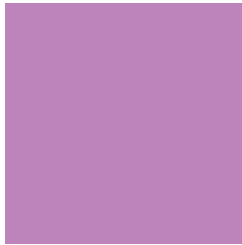


0.7882, 0.3792, 1.2642



# Previews

## White Background



This preview shows how the XYZ color 38.3146, 30.9522, 51.5319 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

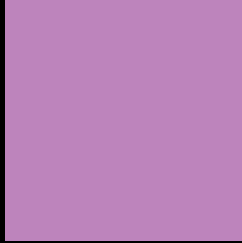
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.3146, 30.9522, 51.5319 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

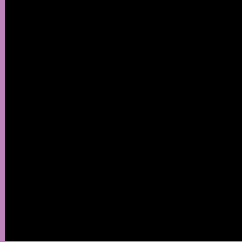
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.3146, 30.9522, 51.5319**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.3146, 30.9522, 51.5319.



This preview shows how white text looks on a background with the XYZ color 38.3146, 30.9522,



# 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

38.3146, 30.9522, 51.5319

### Protanopia

31.7655, 31.3481, 59.6349

### Deuteranopia

31.7413, 31.0722, 50.2235



## Tritanopia

34.5048, 30.8576, 32.9917

# Trichromacy



## Original Color

38.3146, 30.9522, 51.5319

## Protanomaly

33.4966, 30.6984, 56.3845

## Deuteranomaly

33.8458, 30.7837, 50.6124

## Tritanomaly

35.7547, 30.7278, 39.1685

# Monochromacy



## Original Color

38.3146, 30.9522, 51.5319

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

33.3451, 31.8729, 40.9538

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.3146, 30.9522, 51.5319 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(189, 132, 188)` looks like.

```
.text, #text, p{  
    color:rgb(189, 132, 188)  
}
```

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(189, 132, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 132, 188) }
```

## Border

The CSS property to change the border of an element to XYZ 38.3146, 30.9522, 51.5319 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(189, 132, 188) }
```



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

```
.border{ border-color:rgb(189, 132, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 132, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 132, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 132, 188);  
box-shadow:4px 4px 4px 4px rgb(189, 132,  
188) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.3146, 30.9522, 51.5319 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 132, 188) }
```

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

```
.background{ background-color: rgb(189,  
132, 188) }
```

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