

# Converting Colors

XYZ(38.6915, 31.5025, 64.4320)

Have a look what the booklet for  
XYZ(38.6915, 31.5025, 64.4320)  
contains.

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# Color

**XYZ(38.7630, 31.5151,  
64.3616)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B387D1
RGB	179, 135, 209
RGB Percent	70%, 53%, 82%
CMY	0.2980, 0.4706, 0.1804
CMYK	0.14, 0.35, 0.00, 0.18
HSL	276°, 45%, 67%
HSV	276°, 35%, 82%
XYZ	38.7630, 31.5151, 64.3616
YIQ	156.5920, 2.4700, 32.3420

# Conversions

## Conversions Part 2

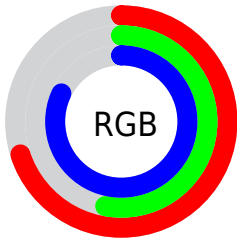
<b>Format</b>	<b>Color</b>
<b>RYB</b>	179, 135, 209
Decimal	11765713
CIELab	62.94, 30.53, -31.75
CIELCh	63, 44.045, 313.884
Yxy	31.5151, 0.2879, 0.2341
Android (android.graphics.Color)	4289955793 (0xFFB387D1)
YUV	156.5920, 25.8371, 19.6518
Hunter-Lab	56.1383, 25.0106, -28.6781

# Details

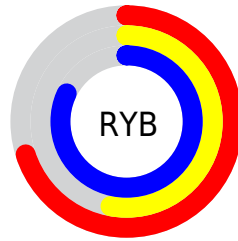
The XYZ color **38.7630, 31.5151, 64.3616** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **42.6917, 55.3503, 31.3566**, and the grayscale version is **31.7527, 33.4063, 36.3794**.

A 20% lighter version of the original color is **70.8397, 61.4481, 102.7347**, and **17.4605, 13.0337, 32.1673** is the 20% darker color. If you saturate the color by 10%, you get **34.2299, 25.2666, 63.3949**, and if you desaturate by 10%, it is **43.9910, 38.9729, 65.5261**.

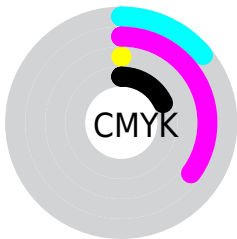
# Distribution



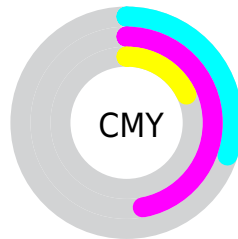
- Red (70%)
- Green (53%)
- Blue (82%)



- Red (70%)
- Yellow (53%)
- Blue (82%)



- Cyan (14%)
- Magenta (35%)
- Yellow (0%)
- Black (18%)




- Cyan (30%)
- Magenta (47%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7630, 31.5151, 64.3616 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 38.7630, 31.5151, 64.3616 by changing the saturation by 10% instead.





 38.7630, 31.5151,  
64.3616


 38.7630, 31.5151,  
64.3616


332.1064,  
308.9044, 458.7375


 26.7553, 20.9914,  
46.4956


 72.5725, 62.0501,  
112.7360

 17.5252, 13.1177,  
32.2856


 95.1050, 82.8303,  
144.0815

 10.7072, 7.5097,  
21.3131


 121.8766,  
107.7980, 180.7571

 5.9362, 3.7828,  
13.1596

153.2524,  
137.3377, 223.1815

 2.8466, 1.5528,  
7.4065

189.5980,  
171.8338, 271.7732

 1.0732, 0.3255,  
3.6353

231.2786,

 0.0025, 0.0000,

211.6707, 326.9508

1.4275

278.6596,  
257.2328, 389.1327

■ 0.0000, 0.0000,  
0.1630

■ 0.0000, 0.0000,  
0.0000

■ 38.7630, 31.5151,  
64.3616

■ 38.7630, 31.5151,  
64.3616

■ 34.2299, 25.2666,  
63.3949

■ 43.9910, 38.9729,  
65.5261

■ 30.3526, 20.1552,  
62.6127

■ 49.9436, 47.6991,  
66.8967

■ 27.0929, 16.1067,  
62.0031

■ 56.6526, 57.7534,  
68.4837

■ 24.4067, 13.0363,  
61.5520

■ 64.1469, 69.1904,  
70.2963

22.2429, 10.8454,  
61.2432

72.4537, 82.0619,  
72.3429

20.5397, 9.4139,  
61.0566

79.8505, 92.9200,  
74.0489

19.8601, 8.9088,  
60.9949

82.6338, 94.3549,  
74.1792

85.5511, 95.8588,  
74.3157

88.5087, 97.3835,  
74.4541

# Harmonies

## Analogous

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



32.8331, 31.5151, 77.8800



38.7630, 31.5151, 64.3616



42.5768, 31.5151, 44.4176

# Triad

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



38.7630, 31.5151, 64.3616



33.3005, 31.5151, 11.2286



20.0212, 31.5151, 42.9455

# Complementary

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



38.7630, 31.5151, 64.3616



42.6917, 55.3503, 31.3566

# 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.



20.1110, 31.5151, 25.8730



38.7630, 31.5151, 64.3616



27.2487, 31.5151, 11.0699

# Square

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



38.7630, 31.5151, 64.3616



39.1447, 31.5151, 16.0142



22.5925, 31.5151, 15.4685



22.3281, 31.5151, 62.9763



# Rectangle

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



38.7630, 31.5151, 64.3616



43.1233, 31.5151, 32.1070



22.5925, 31.5151, 15.4685



19.7828, 31.5151, 36.6211

# Sweetspot

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



38.7641, 31.5164, 64.3623



82.6848, 81.2975, 105.9418



35.1074, 36.9675, 65.6072



17.3941, 16.9470, 22.6043



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.



38.7641, 31.5164, 64.3623



55.6550, 42.3033, 99.8398



45.7190, 35.1883, 60.7788



11.8279, 11.7601, 14.8902



12.3592, 5.5517, 37.6127



0.7796, 0.3561, 2.1072



# Inverse Universe

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



41.7510, 33.6011, 39.8837



61.2533, 46.1841, 55.1605



37.6133, 52.6807, 33.4517



12.0045, 11.8865, 13.2996



17.2628, 8.7780, 6.2901

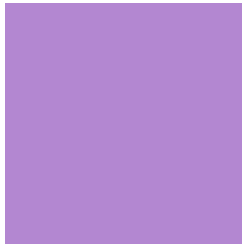


1.0041, 0.5064, 0.5565



# Previews

## White Background



This preview shows how the XYZ color 38.7630, 31.5151, 64.3616 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

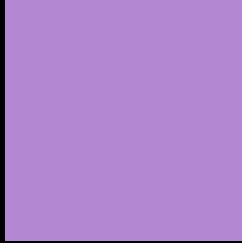
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.7630, 31.5151, 64.3616 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

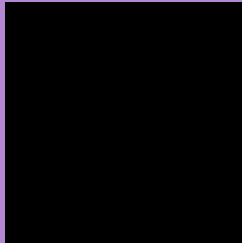
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.7630, 31.5151, 64.3616**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7630, 31.5151, 64.3616.



This preview shows how white text looks on a background with the XYZ color 38.7630, 31.5151,



# 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

38.7630, 31.5151, 64.3616

### Protanopia

33.1634, 31.7790, 72.7927

### Deuteranopia

32.3635, 31.5873, 62.7837



## Tritanopia

33.1593, 31.6500, 36.2597

# Trichromacy



## Original Color

38.7630, 31.5151, 64.3616

## Protanomaly

34.8625, 31.5565, 69.8992

## Deuteranomaly

34.3368, 31.4312, 63.2886

## Tritanomaly

34.9650, 31.4793, 45.3075

# Monochromacy



## Original Color

38.7630, 31.5151, 64.3616

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

34.1010, 32.6288, 45.5750

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7630, 31.5151, 64.3616 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, 135, 209)` looks like.

```
.text, #text, p{  
    color:rgb(179, 135, 209)  
}
```

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, 135, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 135, 209) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7630, 31.5151, 64.3616 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, 135, 209) }
```



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

```
.border{ border-color:rgb(179, 135, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 135, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 135, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 135, 209);  
box-shadow:4px 4px 4px 4px rgb(179, 135,  
209) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7630, 31.5151, 64.3616 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 135, 209) }
```

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

```
.background{ background-color: rgb(179,  
135, 209) }
```

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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