

# Converting Colors

XYZ(31.1238, 30.2152, 37.0584)

Have a look what the booklet for  
XYZ(31.1238, 30.2152, 37.0584)  
contains.

<b>XYZ(31.1316, 30.1311, 36.9760)</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(31.1316, 30.1311,  
36.9760)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2909F
RGB	162, 144, 159
RGB Percent	64%, 56%, 62%
CMY	0.3647, 0.4353, 0.3765
CMYK	0.00, 0.11, 0.02, 0.36
HSL	310°, 9%, 60%
HSV	310°, 11%, 64%
XYZ	31.1316, 30.1311, 36.9760
YIQ	151.0920, 5.9130, 8.4810

# Conversions

## Conversions Part 2

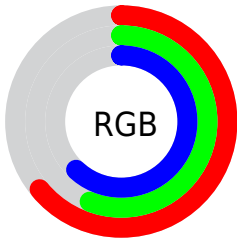
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	162, 144, 159
Decimal	10653855
CIE Lab	61.77, 9.46, -5.45
CIE LCh	62, 10.917, 330.028
Yxy	30.1311, 0.3169, 0.3067
Android (android.graphics.Color)	4288843935 (0xFFA2909F)
YUV	151.0920, 3.8986, 9.5663
Hunter-Lab	54.8918, 5.1747, -1.5144

# Details

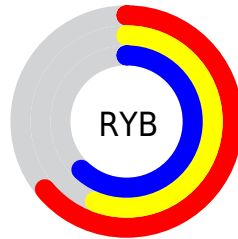
The XYZ color **31.1316, 30.1311, 36.9760** is a light color, and the websafe version is hex **999999**. A complement of this color would be **29.6896, 33.8774, 32.5796**, and the grayscale version is **29.4376, 30.9706, 33.7270**.

A 20% lighter version of the original color is **60.9470, 59.9949, 71.9863**, and **13.1399, 12.4031, 15.8889** is the 20% darker color. If you saturate the color by 10%, you get **28.6204, 25.4792, 34.9956**, and if you desaturate by 10%, it is **34.0018, 35.4919, 39.1021**.

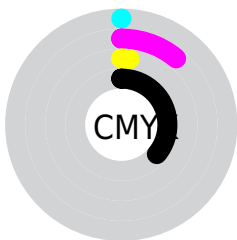
# Distribution



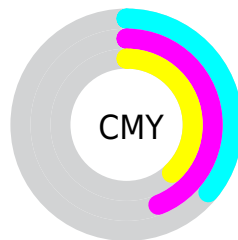
- Red (64%)
- Green (56%)
- Blue (62%)



- Red (64%)
- Yellow (56%)
- Blue (62%)



- Cyan (0%)
- Magenta (11%)
- Yellow (2%)
- Black (36%)



- Cyan (36%)
- Magenta (44%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1316, 30.1311, 36.9760 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 31.1316, 30.1311, 36.9760 by changing the saturation by 10% instead.



■ 31.1316, 30.1311,  
36.9760

■ 31.1316, 30.1311,  
36.9760

298.9602,  
302.5151, 348.3722

■ 20.8514, 19.9381,  
24.8933

■ 60.8216, 59.8694,  
71.7218

■ 13.1273, 12.3501,  
15.7793

■ 80.9622, 80.1836,  
95.2219

■ 7.5938, 6.9826,  
9.2154

105.1202,  
104.6403, 123.3649

■ 3.8858, 3.4512,  
4.7832

133.6611,  
133.6238, 156.5694

■ 1.6377, 1.3716,  
2.0641

166.9502,  
167.5187, 195.2538

■ 0.4168, 0.1956,  
0.5943

205.3528,

■ 0.0000, 0.0000,

206.7093, 239.8367

0.0000

249.2344,  
251.5799, 290.7366

■ 31.1316, 30.1311,  
36.9760

■ 31.1316, 30.1311,  
36.9760

■ 28.6204, 25.4792,  
34.9956

■ 34.0018, 35.4919,  
39.1021

■ 26.4505, 21.5023,  
33.1537

■ 37.2425, 41.5857,  
41.3767

■ 24.6069, 18.1699,  
31.4455

■ 40.8677, 48.4405,  
43.8050

■ 23.0723, 15.4473,  
29.8651

■ 44.8901, 56.0813,  
46.3916

■ 21.8276, 13.2966,  
28.4060

■ 49.3218, 64.5323,  
49.1404

■ 20.8518, 11.6759,  
27.0609

■ 54.1744, 73.8164,  
52.0555

■ 20.1210, 10.5372,  
25.8219

■ 58.6869, 82.4121,  
54.8835

■ 19.6069, 9.8241,  
24.6791

■ 58.9606, 82.5215,  
56.3249

■ 19.2734, 9.4307,  
23.7245

■ 59.2397, 82.6332,  
57.7946

# Harmonies

## Analogous

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



30.0619, 30.1311, 40.2460



31.1316, 30.1311, 36.9760



31.5289, 30.1311, 32.8037

# Triad

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



31.1316, 30.1311, 36.9760



28.6373, 30.1311, 25.4290



26.2839, 30.1311, 36.9833

# Complementary

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



31.1316, 30.1311, 36.9760



29.6896, 33.8774, 32.5796

# 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.



25.9308, 30.1311, 32.8116



31.1316, 30.1311, 36.9760



27.2612, 30.1311, 26.3473

# Square

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



31.1316, 30.1311, 36.9760



30.0594, 30.1311, 26.3440



26.2826, 30.1311, 28.9650



27.2635, 30.1311, 40.2505



# Rectangle

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



31.1316, 30.1311, 36.9760



31.3488, 30.1311, 30.1390



26.2826, 30.1311, 28.9650



26.0895, 30.1311, 35.6293

# Sweetspot

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



31.1325, 30.1324, 36.9767



60.6606, 62.4343, 70.2137



28.5287, 28.7597, 38.2306



13.5290, 13.8446, 15.7003



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



31.1325, 30.1324, 36.9767



55.4895, 52.7905, 66.3370



30.3796, 29.8313, 33.0122



7.3134, 7.1818, 8.6367



15.1974, 7.4350, 18.7619



0.3320, 0.1613, 0.4609



# Inverse Universe

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



31.1325, 30.1324, 36.9767



55.4895, 52.7905, 66.3370



30.4237, 34.1711, 36.4456



7.3134, 7.1818, 8.6367



15.1974, 7.4350, 18.7619

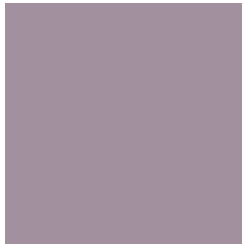


0.3320, 0.1613, 0.4609



# Previews

## White Background



This preview shows how the XYZ color 31.1316, 30.1311, 36.9760 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 31.1316, 30.1311, 36.9760 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

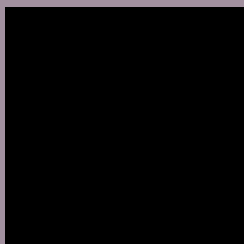
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.1316, 30.1311, 36.9760**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1316, 30.1311, 36.9760.



This preview shows how white text looks on a background with the XYZ color 31.1316, 30.1311,

36.9760.

# 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

31.1316, 30.1311, 36.9760

### Protanopia

29.3242, 30.0843, 38.4437

### Deuteranopia

30.6815, 30.1249, 36.9985



## Tritanopia

31.0264, 30.3325, 35.6720

# Trichromacy



## Original Color

31.1316, 30.1311, 36.9760

## Protanomaly

30.0036, 30.2130, 37.9685

## Deuteranomaly

30.8806, 30.2276, 37.0078

## Tritanomaly

31.1115, 30.3665, 36.1199

# Monochromacy



## Original Color

31.1316, 30.1311, 36.9760

## Achromatopsia

29.4150, 30.9469, 33.7012

## Achromatomaly

29.9402, 30.4815, 34.8773

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1316, 30.1311, 36.9760 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(162, 144, 159)` looks like.

```
.text, #text, p{  
    color:rgb(162, 144, 159)  
}
```

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(162, 144, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 144, 159) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1316, 30.1311, 36.9760 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(162, 144, 159) }
```



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

```
.border{ border-color:rgb(162, 144, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 144, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 144, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 144, 159);  
box-shadow:4px 4px 4px 4px rgb(162, 144,  
159) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1316, 30.1311, 36.9760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 144, 159) }
```

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

```
.background{ background-color: rgb(162,  
144, 159) }
```

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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