

Converting Colors

XYZ(31.6679, 33.1718, 35.9866)

Have a look what the booklet for
XYZ(31.6679, 33.1718, 35.9866)
contains.

XYZ(31.7938, 33.3453, 36.2131)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

**XYZ(31.7938, 33.3453,
36.2131)**

Conversions

Conversions Part 1

Format	Color
Hex	9D9C9C
RGB	157, 156, 156
RGB Percent	62%, 61%, 61%
CMY	0.3843, 0.3882, 0.3882
CMYK	0.00, 0.01, 0.01, 0.38
HSL	0°, 1%, 61%
HSV	0°, 1%, 62%
XYZ	31.7938, 33.3453, 36.2131
YIQ	156.2990, 0.5960, 0.2120

Conversions

Conversions Part 2

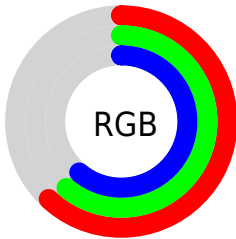
Format	Color
RYB	157, 156, 156
Decimal	10329244
CIELab	64.44, 0.36, 0.12
CIELCh	64, 0.384, 18.235
Yxy	33.3453, 0.3137, 0.3290
Android (android.graphics.Color)	4288519324 (0xFF9D9C9C)
YUV	156.2990, -0.1474, 0.6148
Hunter-Lab	57.7454, -2.7748, 3.2400

Details

The XYZ color **31.7938, 33.3453, 36.2131** is a light color, and the websafe version is hex **999999**. A complement of this color would be **31.8531, 33.6157, 36.7083**, and the grayscale version is **31.7347, 33.3873, 36.3588**.

A 20% lighter version of the original color is **61.8308, 64.7434, 70.2107**, and **13.5452, 14.1872, 15.3891** is the 20% darker color. If you saturate the color by 10%, you get **28.0892, 27.9276, 28.8376**, and if you desaturate by 10%, it is **36.0110, 39.5122, 44.6081**.

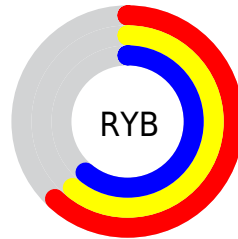
Distribution



Red (62%)

Green (61%)

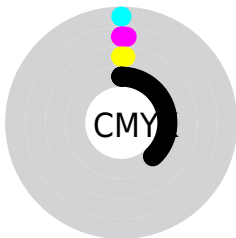
Blue (61%)



Red (62%)

Yellow (61%)

Blue (61%)

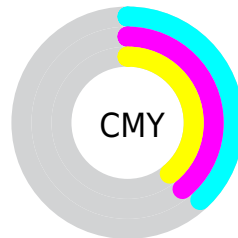


Cyan (0%)

Magenta (1%)

Yellow (1%)

Black (38%)



Cyan (38%)

Magenta (39%)

Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7938, 33.3453, 36.2131 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 31.7938, 33.3453, 36.2131 by changing the saturation by 10% instead.

■ 31.7938, 33.3453,
36.2131

■ 31.7938, 33.3453,
36.2131

301.9409,
317.2028, 344.9565

■ 21.3588, 22.3911,
24.3078

■ 61.8551, 64.9143,
70.5336

■ 13.5005, 14.1446,
15.3478

■ 82.2121, 86.2978,
93.7859

■ 7.8535, 8.2213,
8.9145

106.6072,
111.9266, 121.6576

■ 4.0523, 4.2369,
4.5894

135.4056,
142.1850, 154.5673

■ 1.7318, 1.8069,
1.9540

168.9729,
177.4574, 192.9335

■ 0.4760, 0.4915,
0.5267

207.6743,

■ 0.0000, 0.0000,

218.1283, 237.1748

0.0000

251.8752,
264.5819, 287.7096

■ 31.7938, 33.3453,
36.2131

■ 31.7938, 33.3453,
36.2131

■ 28.0892, 27.9276,
28.8376

■ 36.0110, 39.5122,
44.6081

■ 24.8749, 23.2264,
22.4408

■ 40.7562, 46.4507,
54.0571

■ 22.1312, 19.2131,
16.9821

■ 46.0479, 54.1878,
64.5956

■ 19.8362, 15.8554,
12.4176

■ 51.9026, 62.7477,
76.2569

■ 17.9658, 13.1185,
8.6995

■ 58.3364, 72.1538,
89.0727

■ 16.4941, 10.9644,
5.7758

■ 65.3644, 82.4283,
103.0736

■ 15.3922, 9.3508,
3.5888

■ 67.7148, 85.9082,
107.6207

■ 14.6273, 8.2300,
2.0729

■ 14.1607, 7.5455,
1.1509

Harmonies

Analogous

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



31.7969, 33.3453, 36.3689



31.7938, 33.3453, 36.2131



31.7639, 33.3453, 36.0829

Triad

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



31.7938, 33.3453, 36.2131



31.6152, 33.3453, 36.1069



31.6722, 33.3453, 36.6033

Complementary

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



31.7938, 33.3453, 36.2131



31.8531, 33.6157, 36.7083

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.



31.6236, 33.3453, 36.5327



31.7938, 33.3453, 36.2131



31.5908, 33.3453, 36.2459

Square

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



31.7938, 33.3453, 36.2131



31.6608, 33.3453, 36.0218



31.5938, 33.3453, 36.4018



31.7267, 33.3453, 36.5945

Rectangle

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



31.7938, 33.3453, 36.2131



31.7328, 33.3453, 36.0281



31.5938, 33.3453, 36.4018



31.6547, 33.3453, 36.5881

Sweetspot

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



31.7947, 33.3467, 36.2138



57.3938, 60.3827, 65.7568



31.8793, 33.3799, 36.6614



12.6291, 13.2868, 14.4694



74.8435, 78.7412, 85.7492

Same Dimension

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



31.7947, 33.3467, 36.2138



56.6702, 59.3245, 64.3162



31.8784, 33.5140, 36.2417



7.3561, 7.7042, 8.3560



11.2971, 5.8299, 0.5299



0.2024, 0.1050, 0.0096

Inverse Universe

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



31.8531, 33.6157, 36.7083



56.8370, 60.0938, 65.7304



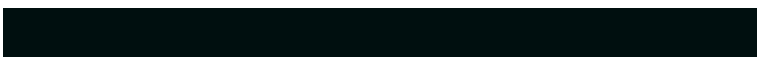
31.7691, 33.4478, 36.6803



7.3757, 7.7948, 8.5225



14.6795, 21.4505, 29.2739



0.2629, 0.3844, 0.5236

Previews

White Background



This preview shows how the XYZ color 31.7938, 33.3453, 36.2131 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 31.7938, 33.3453, 36.2131 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

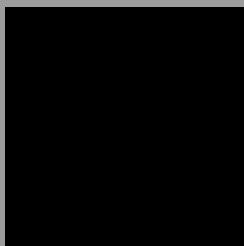
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

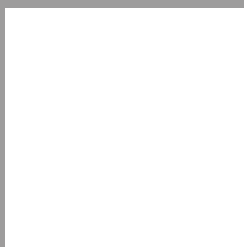
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.7938, 33.3453, 36.2131

Background



This preview shows how black text looks on a background with the XYZ color 31.7938, 33.3453, 36.2131.



This preview shows how white text looks on a background with the XYZ color 31.7938, 33.3453,

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

31.7938, 33.3453, 36.2131

Protanopia

32.0202, 33.2139, 36.1758

Deuteranopia

33.9470, 33.2255, 36.5222



Tritanopia

32.8287, 33.2722, 41.2511

Trichromacy



Original Color

31.7938, 33.3453, 36.2131

Protanomaly

31.8226, 33.1121, 36.1665

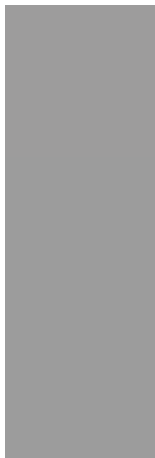
Deuteranomaly

33.2029, 33.3238, 36.5804

Tritanomaly

32.4328, 33.3561, 39.3793

Monochromacy



Original Color

31.7938, 33.3453, 36.2131

Achromatopsia

31.5995, 33.2452, 36.2040

Achromatomaly

31.5995, 33.2452, 36.2040

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7938, 33.3453, 36.2131 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(157, 156, 156)` looks like.

```
.text, #text, p{  
    color:rgb(157, 156, 156)  
}
```

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(157, 156, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 156, 156) }
```

Border

The CSS property to change the border of an element to XYZ 31.7938, 33.3453, 36.2131 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(157, 156, 156) }
```

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

```
.border{ border-color:rgb(157, 156, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 156, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 156, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 156, 156);  
box-shadow:4px 4px 4px 4px rgb(157, 156,  
156) }
```


Background

The CSS property to change the background color of an element to XYZ 31.7938, 33.3453, 36.2131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 156, 156) }
```

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

```
.background{ background-color: rgb(157,  
156, 156) }
```

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