

Converting Colors

XYZ(32.0233, 37.0178, 24.0082)

Have a look what the booklet for
XYZ(32.0233, 37.0178, 24.0082)
contains.

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Color

**XYZ(31.8136, 36.7813,
23.8351)**

Conversions

Conversions Part 1

Format	Color
Hex	9FA87A
RGB	159, 168, 122
RGB Percent	62%, 66%, 48%
CMY	0.3765, 0.3412, 0.5216
CMYK	0.05, 0.00, 0.27, 0.34
HSL	72°, 21%, 57%
HSV	72°, 27%, 66%
XYZ	31.8136, 36.7813, 23.8351
YIQ	160.0650, 9.4020, -16.2140

Conversions

Conversions Part 2

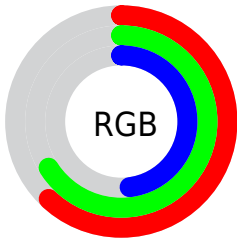
Format	Color
RYB	122, 168, 131
Decimal	10463354
CIELab	67.11, -11.09, 22.76
CIElCh	67, 25.318, 115.967
Yxy	36.7813, 0.3442, 0.3979
Android (android.graphics.Color)	4288653434 (0xFF9FA87A)
YUV	160.0650, -18.7660, -0.9340
Hunter-Lab	60.6476, -12.4984, 19.1518

Details

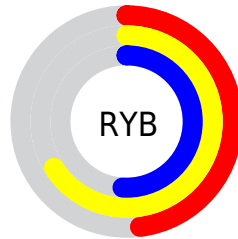
The XYZ color **31.8136, 36.7813, 23.8351** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **23.3888, 21.5724, 39.9789**, and the grayscale version is **33.5252, 35.2711, 38.4102**.

A 20% lighter version of the original color is **61.8571, 70.1666, 50.8407**, and **13.5114, 16.0976, 8.6984** is the 20% darker color. If you saturate the color by 10%, you get **30.2183, 36.0701, 18.7884**, and if you desaturate by 10%, it is **33.6081, 37.5767, 29.8320**.

Distribution



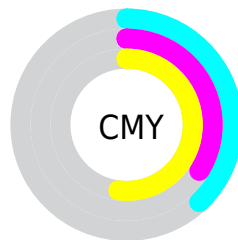
- Red (62%)
- Green (66%)
- Blue (48%)



- Red (48%)
- Yellow (66%)
- Blue (51%)



- Cyan (5%)
- Magenta (0%)
- Yellow (27%)
- Black (34%)



- Cyan (38%)
- Magenta (34%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8136, 36.7813, 23.8351 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 31.8136, 36.7813, 23.8351 by changing the saturation by 10% instead.

■ 31.8136, 36.7813,
23.8351

■ 31.8136, 36.7813,
23.8351

302.0297,
332.3627, 285.2454

■ 21.3740, 25.0382,
15.0003

■ 61.8859, 70.2363,
50.7014

■ 13.5117, 16.1055,
8.6730

■ 82.2494, 92.7170,
69.5700

■ 7.8613, 9.5989,
4.4346

■ 106.6515,
119.5457, 92.6203

■ 4.0574, 5.1338,
1.8667

135.4577,
151.1067, 120.2707

■ 1.7346, 2.3260,
0.4714

169.0332,
187.7846, 152.9399

■ 0.4778, 0.7874,
0.0000

207.7435,

■ 0.0000, 0.0000,

229.9636, 191.0464

0.0000

251.9538,
278.0282, 235.0087

■ 31.8136, 36.7813,
23.8351

■ 31.8136, 36.7813,
23.8351

■ 30.2183, 36.0701,
18.7884

■ 33.6081, 37.5767,
29.8320

■ 28.8100, 35.4344,
14.6409

■ 35.6078, 38.4549,
36.8221

■ 27.5794, 34.8718,
11.3401

■ 37.8217, 39.4209,
44.8484

■ 26.5153, 34.3778,
8.8274

■ 40.2576, 40.4777,
53.9510

■ 25.6050, 33.9472,
7.0366

■ 42.9227, 41.6282,
64.1676

■ 24.8336, 33.5741,
5.8908

■ 45.8241, 42.8754,
75.5342

■ 24.1783, 33.2493,
5.2697

■ 48.9683, 44.2217,
88.0850

■ 24.0149, 33.1679,
5.1363

■ 52.1347, 45.5790,
100.6576

■ 52.9389, 45.9936,
100.6952

Harmonies

Analogous

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



35.4835, 36.7813, 22.3865



31.8136, 36.7813, 23.8351



29.1699, 36.7813, 29.3042

Triad

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



31.8136, 36.7813, 23.8351



30.9731, 36.7813, 60.3413



42.8866, 36.7813, 41.5603

Complementary

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



31.8136, 36.7813, 23.8351



23.3888, 21.5724, 39.9789

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.



41.4687, 36.7813, 53.1425



31.8136, 36.7813, 23.8351



34.4408, 36.7813, 65.1745

Square

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



31.8136, 36.7813, 23.8351



28.7102, 36.7813, 50.0804



38.3063, 36.7813, 62.3250



42.0556, 36.7813, 31.4547

Rectangle

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



31.8136, 36.7813, 23.8351



28.2505, 36.7813, 35.1186



38.3063, 36.7813, 62.3250



42.6546, 36.7813, 45.4196

Sweetspot

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



31.8145, 36.7829, 23.8359



64.3211, 69.6510, 65.7797



27.7029, 25.8118, 21.9349



13.8995, 15.1285, 13.9131



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



31.8145, 36.7829, 23.8359



55.8854, 65.9227, 37.3543



27.7623, 34.6939, 23.6462



8.0009, 8.6986, 8.0466



18.1757, 25.0671, 3.8805



0.4780, 0.6283, 0.0961

Inverse Universe

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



23.3888, 21.5724, 39.9789



37.9657, 33.5632, 71.7024



27.2474, 23.5616, 40.1595



7.2638, 7.3686, 9.4578



5.8426, 2.3954, 28.1299



0.1798, 0.0777, 0.6862

Previews

White Background



This preview shows how the XYZ color 31.8136, 36.7813, 23.8351 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 31.8136, 36.7813, 23.8351 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

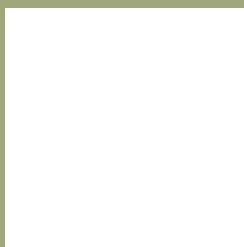
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.8136, 36.7813, 23.8351

Background



This preview shows how black text looks on a background with the XYZ color 31.8136, 36.7813, 23.8351.



This preview shows how white text looks on a background with the XYZ color 31.8136, 36.7813,

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

31.8136, 36.7813, 23.8351

Protanopia

34.1666, 36.6644, 23.0455

Deuteranopia

37.4333, 36.7756, 24.1942



Tritanopia

36.1107, 36.6527, 45.2158

Trichromacy



Original Color

31.8136, 36.7813, 23.8351

Protanomaly

33.2685, 36.7258, 23.4245

Deuteranomaly

35.1424, 36.6231, 23.9557

Tritanomaly

34.2961, 36.7040, 36.2873

Monochromacy



Original Color

31.8136, 36.7813, 23.8351

Achromatopsia

33.4132, 35.1533, 38.2819

Achromatomaly

32.7827, 35.7433, 32.3654

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8136, 36.7813, 23.8351 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(159, 168, 122)` looks like.

```
.text, #text, p{  
    color:rgb(159, 168, 122)  
}
```

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(159, 168, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 168, 122) }
```

Border

The CSS property to change the border of an element to XYZ 31.8136, 36.7813, 23.8351 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(159, 168, 122) }
```


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

```
.border{ border-color:rgb(159, 168, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 168, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 168, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 168, 122);  
box-shadow:4px 4px 4px 4px rgb(159, 168,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 31.8136, 36.7813, 23.8351 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 168, 122) }
```

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

```
.background{ background-color: rgb(159,  
168, 122) }
```

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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