

Converting Colors

XYZ(31.1878, 32.3752, 23.4891)

Have a look what the booklet for
XYZ(31.1878, 32.3752, 23.4891)
contains.

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Color

**XYZ(31.1656, 32.3215,
23.3350)**

Conversions

Conversions Part 1

Format	Color
Hex	A9987B
RGB	169, 152, 123
RGB Percent	66%, 60%, 48%
CMY	0.3373, 0.4039, 0.5176
CMYK	0.00, 0.10, 0.27, 0.34
HSL	38°, 21%, 57%
HSV	38°, 27%, 66%
XYZ	31.1656, 32.3215, 23.3350
YIQ	153.7770, 19.4410, -5.4150

Conversions

Conversions Part 2

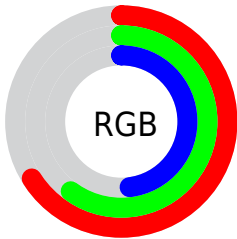
Format	Color
RYB	150, 169, 123
Decimal	11114619
CIELab	63.61, 1.65, 17.57
CIElCh	64, 17.645, 84.638
Yxy	32.3215, 0.3590, 0.3723
Android (android.graphics.Color)	4289304699 (0xFFA9987B)
YUV	153.7770, -15.1731, 13.3506
Hunter-Lab	56.8520, -1.6394, 15.4607

Details

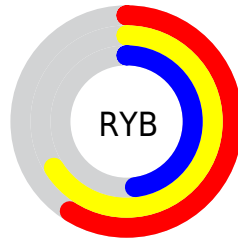
The XYZ color **31.1656, 32.3215, 23.3350** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **24.7078, 25.8312, 41.2201**, and the grayscale version is **30.6765, 32.2741, 35.1464**.

A 20% lighter version of the original color is **60.9591, 63.2848, 50.0766**, and **13.0922, 13.5148, 8.3971** is the 20% darker color. If you saturate the color by 10%, you get **29.2110, 29.9615, 17.9069**, and if you desaturate by 10%, it is **33.3580, 34.8642, 29.7442**.

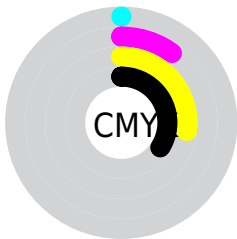
Distribution



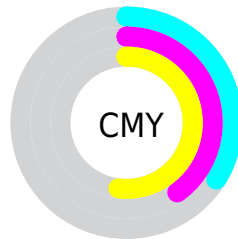
- Red (66%)
- Green (60%)
- Blue (48%)



- Red (59%)
- Yellow (66%)
- Blue (48%)



- Cyan (0%)
- Magenta (10%)
- Yellow (27%)
- Black (34%)



- Cyan (34%)
- Magenta (40%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1656, 32.3215, 23.3350 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 31.1656, 32.3215, 23.3350 by changing the saturation by 10% instead.

■ 31.1656, 32.3215,
23.3350

■ 31.1656, 32.3215,
23.3350

299.1138,
312.5812, 282.6185

■ 20.8774, 21.6072,
14.6334

■ 60.8748, 63.3148,
49.8730

■ 13.1464, 13.5686,
8.4188

■ 81.0265, 84.3625,
68.5464

■ 7.6071, 7.8212,
4.2725

■ 105.1967,
109.6235, 91.3810

■ 3.8943, 3.9808,
1.7760

133.7509,
139.4821, 118.7951

■ 1.6425, 1.6628,
0.4120

167.0543,
174.3228, 151.2074

■ 0.4199, 0.3994,
0.0000

205.4724,

■ 0.0000, 0.0000,

214.5300, 189.0364

0.0000

249.3704,
260.4880, 232.7005

■ 31.1656, 32.3215,
23.3350

■ 31.1656, 32.3215,
23.3350

■ 29.2110, 29.9615,
17.9069

■ 33.3580, 34.8642,
29.7442

■ 27.4813, 27.7745,
13.4082

■ 35.7950, 37.5904,
37.1786

■ 25.9665, 25.7561,
9.7854

■ 38.4866, 40.5062,
45.6821

■ 24.6543, 23.9003,
6.9788

■ 41.4411, 43.6163,
55.2953

■ 23.5312, 22.2000,
4.9212

■ 44.6665, 46.9252,
66.0569

■ 22.5814, 20.6476,
3.5343

■ 48.1705, 50.4369,
78.0035

■ 21.7815, 19.2323,
2.6992

■ 51.9604, 54.1556,
91.1701

■ 21.5738, 18.8580,
2.5029

■ 55.5235, 57.8774,
102.8528

■ 57.0181, 60.8666,
103.3510

Harmonies

Analogous

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



33.5458, 32.3215, 25.2437



31.1656, 32.3215, 23.3350



28.7869, 32.3215, 24.2409

Triad

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



31.1656, 32.3215, 23.3350



26.6110, 32.3215, 41.1597



34.7499, 32.3215, 43.6467

Complementary

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



31.1656, 32.3215, 23.3350



24.7078, 25.8312, 41.2201

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.



32.7390, 32.3215, 49.0276



31.1656, 32.3215, 23.3350



28.0587, 32.3215, 47.4625

Square

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



31.1656, 32.3215, 23.3350



26.2396, 32.3215, 33.9395



30.2799, 32.3215, 50.5096



35.6848, 32.3215, 36.4762

Rectangle

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



31.1656, 32.3215, 23.3350



27.5095, 32.3215, 26.3913



30.2799, 32.3215, 50.5096



34.1723, 32.3215, 45.7609

Sweetspot

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



31.1664, 32.3230, 23.3357



63.6839, 66.8561, 65.2738



28.2260, 24.5136, 28.3008



13.7368, 14.4129, 13.7835



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.



31.1664, 32.3230, 23.3357



53.5376, 55.1567, 35.4000



32.9977, 37.6599, 24.2693



7.9104, 8.3008, 7.9746



16.1311, 14.1595, 1.8829



0.4389, 0.4373, 0.0613

Inverse Universe

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



24.7078, 25.8312, 41.2201



39.9185, 41.4721, 73.1261



23.2022, 21.6487, 40.4921



7.3504, 7.7376, 9.5245



6.6869, 4.8340, 28.5561



0.2117, 0.2156, 0.7111

Previews

White Background



This preview shows how the XYZ color 31.1656, 32.3215, 23.3350 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 31.1656, 32.3215, 23.3350 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 31.1656, 32.3215, 23.3350

Background



This preview shows how black text looks on a background with the XYZ color 31.1656, 32.3215, 23.3350.



This preview shows how white text looks on a background with the XYZ color 31.1656, 32.3215,

23.3350.

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

31.1656, 32.3215, 23.3350

Protanopia

30.5035, 32.4590, 23.7263

Deuteranopia

32.8184, 32.2188, 23.5579



Tritanopia

33.9253, 32.2549, 37.2386

Trichromacy



Original Color

31.1656, 32.3215, 23.3350

Protanomaly

30.7552, 32.3447, 23.6910

Deuteranomaly

32.0647, 32.0641, 23.5678

Tritanomaly

32.9490, 32.3409, 31.6999

Monochromacy



Original Color

31.1656, 32.3215, 23.3350

Achromatopsia

30.7148, 32.3143, 35.1903

Achromatomaly

30.6472, 32.1366, 30.5743

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1656, 32.3215, 23.3350 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(169, 152, 123)` looks like.

```
.text, #text, p{  
    color:rgb(169, 152, 123)  
}
```

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(169, 152, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 152, 123) }
```

Border

The CSS property to change the border of an element to XYZ 31.1656, 32.3215, 23.3350 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(169, 152, 123) }
```


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

```
.border{ border-color:rgb(169, 152, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(169, 152, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 152, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 152, 123);  
box-shadow:4px 4px 4px 4px rgb(169, 152,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1656, 32.3215, 23.3350 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 152, 123) }
```

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

```
.background{ background-color: rgb(169,  
152, 123) }
```

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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