

Converting Colors

XYZ(31.7687, 32.2565, 28.3271)

Have a look what the booklet for
XYZ(31.7687, 32.2565, 28.3271)
contains.

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Color

**XYZ(31.7304, 32.2642,
28.2221)**

Conversions

Conversions Part 1

Format	Color
Hex	A89789
RGB	168, 151, 137
RGB Percent	66%, 59%, 54%
CMY	0.3412, 0.4078, 0.4627
CMYK	0.00, 0.10, 0.18, 0.34
HSL	27°, 15%, 60%
HSV	27°, 18%, 66%
XYZ	31.7304, 32.2642, 28.2221
YIQ	154.4870, 14.6260, -0.7500

Conversions

Conversions Part 2

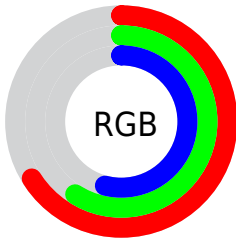
Format	Color
RYB	168, 163, 137
Decimal	11048841
CIELab	63.56, 3.92, 9.66
CIELCh	64, 10.421, 67.892
Yxy	32.2642, 0.3441, 0.3499
Android (android.graphics.Color)	4289238921 (0xFFA89789)
YUV	154.4870, -8.6211, 11.8509
Hunter-Lab	56.8016, 0.3106, 10.3026

Details

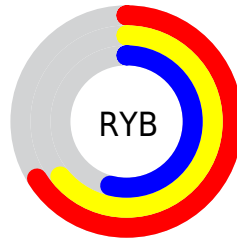
The XYZ color **31.7304, 32.2642, 28.2221** is a light color, and the websafe version is hex **999999**. A complement of this color would be **28.9398, 31.2559, 41.5537**, and the grayscale version is **30.9622, 32.5747, 35.4738**.

A 20% lighter version of the original color is **61.5570, 63.0683, 57.6442**, and **13.4799, 13.5155, 10.9151** is the 20% darker color. If you saturate the color by 10%, you get **29.1932, 28.9704, 21.8865**, and if you desaturate by 10%, it is **34.5729, 35.8677, 35.5860**.

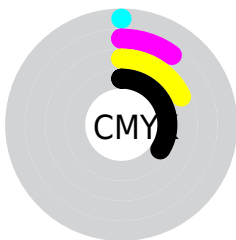
Distribution



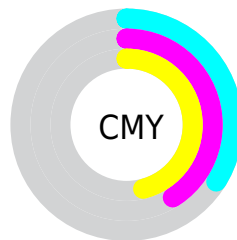
- Red (66%)
- Green (59%)
- Blue (54%)



- Red (66%)
- Yellow (64%)
- Blue (54%)



- Cyan (0%)
- Magenta (10%)
- Yellow (18%)
- Black (34%)





- Cyan (34%)
- Magenta (41%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.7304, 32.2642, 28.2221 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 31.7304, 32.2642, 28.2221 by changing the saturation by 10% instead.


 31.7304, 32.2642,
28.2221


 31.7304, 32.2642,
28.2221

301.6565,
312.3210, 307.4719


 21.3102, 21.5634,
18.2527

 61.7563, 63.2250,
57.8662

 13.4647, 13.5364,
10.9602

 82.0926, 84.2539,
78.3779

 7.8285, 7.7990,
5.9263


 106.4651,
109.4941, 103.2408

 4.0363, 3.9666,
2.7322

135.2390,
139.3302, 132.8735

 1.7227, 1.6549,
0.9596

168.7798,
174.1466, 167.6944

 0.4704, 0.3942,
0.0000

207.4527,

 0.0000, 0.0000,

214.3276, 208.1220

0.0000

251.6231,
260.2576, 254.5750

■ 31.7304, 32.2642,
28.2221

■ 31.7304, 32.2642,
28.2221

■ 29.1932, 28.9704,
21.8865

■ 34.5729, 35.8677,
35.5860

■ 26.9473, 25.9731,
16.5308

■ 37.7287, 39.7848,
44.0198

■ 24.9817, 23.2647,
12.1054

■ 41.2087, 44.0250,
53.5649

■ 23.2832, 20.8354,
8.5559

■ 45.0226, 48.5959,
64.2604

■ 21.8376, 18.6747,
5.8219

■ 49.1796, 53.5049,
76.1429

■ 20.6291, 16.7715,
3.8351

■ 53.6884, 58.7592,
89.2479

■ 19.6396, 15.1133,
2.5162

■ 58.5576, 64.3657,
103.6091

■ 18.8388, 13.6827,
1.7228

■ 61.0407, 69.2292,
104.7531

■ 18.7254, 13.4786,
1.6147

■ 63.5939, 74.3356,
105.6042

Harmonies

Analogous

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



32.9258, 32.2642, 30.4386



31.7304, 32.2642, 28.2221



30.2839, 32.2642, 27.7812

Triad

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



31.7304, 32.2642, 28.2221



27.9795, 32.2642, 36.2411



32.4155, 32.2642, 41.8352

Complementary

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



31.7304, 32.2642, 28.2221



28.9398, 31.2559, 41.5537

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.



31.0516, 32.2642, 43.6728



31.7304, 32.2642, 28.2221



28.5124, 32.2642, 40.2808

Square

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



31.7304, 32.2642, 28.2221



28.1482, 32.2642, 32.2022



29.6260, 32.2642, 43.0826



33.3299, 32.2642, 38.2305

Rectangle

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



31.7304, 32.2642, 28.2221



29.3768, 32.2642, 28.5182



29.6260, 32.2642, 43.0826



31.9927, 32.2642, 42.6926

Sweetspot

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



31.7313, 32.2656, 28.2228



64.0265, 66.6997, 67.9828



30.9313, 28.5513, 34.4747



13.8806, 14.4448, 14.6203



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.



31.7313, 32.2656, 28.2228



55.6960, 56.1217, 46.4522



34.3822, 37.5676, 29.1064



7.7997, 8.0795, 7.9377



14.1906, 10.2784, 1.2360



0.3967, 0.3530, 0.0472

Inverse Universe

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



28.9398, 31.2559, 41.5537



49.7134, 53.9570, 75.0197



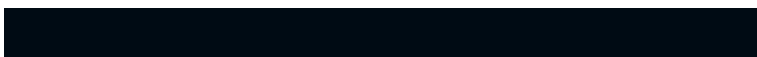
26.5524, 26.4811, 40.7579



7.4599, 7.9566, 9.5609



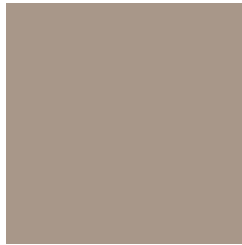
8.2865, 8.0332, 29.0893



0.2517, 0.2956, 0.7244

Previews

White Background



This preview shows how the XYZ color 31.7304, 32.2642, 28.2221 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 31.7304, 32.2642, 28.2221 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

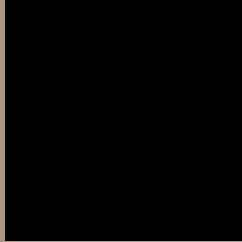
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.7304, 32.2642, 28.2221

Background



This preview shows how black text looks on a background with the XYZ color 31.7304, 32.2642, 28.2221.



This preview shows how white text looks on a background with the XYZ color 31.7304, 32.2642,

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

31.7304, 32.2642, 28.2221

Protanopia

30.4759, 32.0910, 28.6327

Deuteranopia

32.8565, 32.1287, 28.5145



Tritanopia

33.6425, 32.3409, 37.2702

Trichromacy



Original Color

31.7304, 32.2642, 28.2221

Protanomaly

30.9199, 32.0780, 28.6068

Deuteranomaly

32.3481, 32.1005, 28.5358

Tritanomaly

32.9109, 32.2753, 33.7733

Monochromacy



Original Color

31.7304, 32.2642, 28.2221

Achromatopsia

30.7148, 32.3143, 35.1903

Achromatomaly

31.0346, 32.2915, 32.6142

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7304, 32.2642, 28.2221 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(168, 151, 137)` looks like.

```
.text, #text, p{  
    color:rgb(168, 151, 137)  
}
```

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(168, 151, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 151, 137) }
```

Border

The CSS property to change the border of an element to XYZ 31.7304, 32.2642, 28.2221 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(168, 151, 137) }
```


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

```
.border{ border-color:rgb(168, 151, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 151, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 151, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 151, 137);  
box-shadow:4px 4px 4px 4px rgb(168, 151,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 31.7304, 32.2642, 28.2221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 151, 137) }
```

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

```
.background{ background-color: rgb(168,  
151, 137) }
```

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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