

Converting Colors

XYZ(12.8951, 13.8382, 13.0499)

Have a look what the booklet for
XYZ(12.8951, 13.8382, 13.0499)
contains.

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Color

**XYZ(12.9886, 13.9509,
13.0746)**

Conversions

Conversions Part 1

Format	Color
Hex	696960
RGB	105, 105, 96
RGB Percent	41%, 41%, 38%
CMY	0.5882, 0.5882, 0.6235
CMYK	0.00, 0.00, 0.09, 0.59
HSL	60°, 4%, 39%
HSV	60°, 9%, 41%
XYZ	12.9886, 13.9509, 13.0746
YIQ	103.9740, 2.8890, -2.7990

Conversions

Conversions Part 2

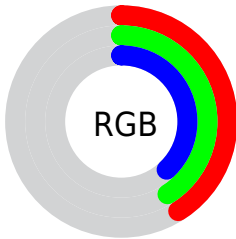
Format	Color
RYB	96, 105, 96
Decimal	6908256
CIELab	44.16, -1.78, 5.06
CIELCh	44, 5.362, 109.396
Yxy	13.9509, 0.3246, 0.3486
Android (android.graphics.Color)	4285098336 (0xFF696960)
YUV	103.9740, -3.9312, 0.8998
Hunter-Lab	37.3509, -3.2916, 5.3913

Details

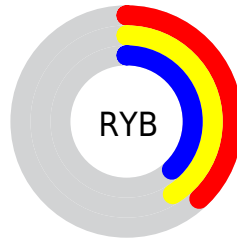
The XYZ color **12.9886, 13.9509, 13.0746** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **11.5571, 11.8729, 15.0478**, and the grayscale version is **13.1611, 13.8465, 15.0788**.

A 20% lighter version of the original color is **30.7871, 32.9202, 31.9257**, and **3.8337, 4.1559, 3.6177** is the 20% darker color. If you saturate the color by 10%, you get **12.5370, 13.7707, 10.6963**, and if you desaturate by 10%, it is **13.5055, 14.1582, 15.7937**.

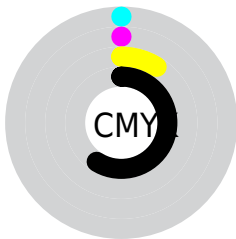
Distribution



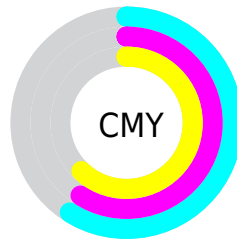
- Red (41%)
- Green (41%)
- Blue (38%)



- Red (38%)
- Yellow (41%)
- Blue (38%)



- Cyan (0%)
- Magenta (0%)
- Yellow (9%)
- Black (59%)



- Cyan (59%)
- Magenta (59%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9886, 13.9509, 13.0746 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 12.9886, 13.9509, 13.0746 by changing the saturation by 10% instead.

■ 12.9886, 13.9509,
13.0746

■ 12.9886, 13.9509,
13.0746

204.4837,
216.9252, 222.6198

■ 7.4976, 8.0865,
7.3486

■ 30.8848, 33.0019,
32.1309

■ 3.8243, 4.1504,
3.5993

■ 44.0207, 46.9573,
46.2983

■ 1.6032, 1.7580,
1.4082

■ 60.4357, 64.3785,
64.1165

■ 0.3945, 0.4608,
0.1481

■ 80.4951, 85.6498,
86.0042

■ 0.0000, 0.0000,
0.0000

104.5642,
111.1558, 112.3798

133.0085,

141.2808, 143.6619

166.1932,
176.4091, 180.2691

■ 12.9886, 13.9509,
13.0746

■ 12.9886, 13.9509,
13.0746

■ 12.5370, 13.7707,
10.6963

■ 13.5055, 14.1582,
15.7937

■ 12.1471, 13.6147,
8.6444

■ 14.0891, 14.3916,
18.8654

■ 11.8166, 13.4825,
6.9050

■ 14.7419, 14.6528,
22.3018

■ 11.5425, 13.3728,
5.4629

■ 15.4662, 14.9425,
26.1146

■ 11.3217, 13.2844,
4.3013

■ 16.2640, 15.2616,
30.3145

■ 11.1507, 13.2160,
3.4021

■ 17.1373, 15.6110,
34.9120

■ 11.0256, 13.1660,
2.7447

■ 18.0880, 15.9913,
39.9174

■ 10.9420, 13.1325,
2.3059

■ 19.1181, 16.4034,
45.3402

■ 10.8837, 13.1091,
1.9997

■ 20.2292, 16.8478,
51.1899

Harmonies

Analogous

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



13.4119, 13.9509, 12.9902



12.9886, 13.9509, 13.0746



12.6451, 13.9509, 13.7079

Triad

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



12.9886, 13.9509, 13.0746



12.7317, 13.9509, 17.0499



14.0850, 13.9509, 15.6278

Complementary

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



12.9886, 13.9509, 13.0746



11.5571, 11.8729, 15.0478

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.



13.8943, 13.9509, 16.7756



12.9886, 13.9509, 13.0746



13.1091, 13.9509, 17.6255

Square

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



12.9886, 13.9509, 13.0746



12.4990, 13.9509, 15.9860



13.5350, 13.9509, 17.5224



14.0511, 13.9509, 14.4211

Rectangle

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



12.9886, 13.9509, 13.0746



12.5047, 13.9509, 14.3761



13.5350, 13.9509, 17.5224



14.0449, 13.9509, 16.0344

Sweetspot

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



12.9890, 13.9515, 13.0749



23.7501, 25.1779, 26.0050



12.1203, 12.2139, 12.7853



5.5487, 5.8920, 6.0139



52.6788, 55.4222, 60.3547



5.6320, 5.9254, 6.4527

Same Dimension

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



12.9890, 13.9515, 13.0749



23.1104, 24.9219, 22.6379



12.4744, 13.6862, 13.0508



3.3331, 3.5835, 3.3335



13.7697, 16.5937, 2.4772



70.1617, 84.5518, 12.6222

Inverse Universe

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



11.5571, 11.8729, 15.0478



20.0671, 20.5041, 26.8311



12.0441, 12.1239, 15.0706



2.9485, 3.0252, 3.8634



3.2288, 1.2916, 17.0014



16.4515, 6.5807, 86.6293

Previews

White Background



This preview shows how the XYZ color 12.9886, 13.9509, 13.0746 looks on a white 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 × Fail

Black Background



This preview shows how the XYZ color 12.9886, 13.9509, 13.0746 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

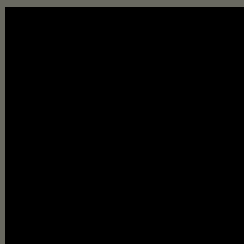
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

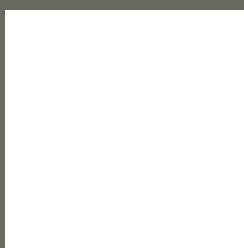
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9886, 13.9509, 13.0746

Background



This preview shows how black text looks on a background with the XYZ color 12.9886, 13.9509, 13.0746.



This preview shows how white text looks on a background with the XYZ color 12.9886, 13.9509,

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

12.9886, 13.9509, 13.0746

Protanopia

13.2002, 13.9150, 12.8166

Deuteranopia

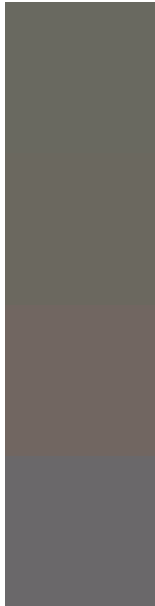
14.1475, 13.9523, 13.2567



Tritanopia

13.7829, 13.9740, 17.0097

Trichromacy



Original Color

12.9886, 13.9509, 13.0746

Protanomaly

13.0793, 13.8527, 12.8109

Deuteranomaly

13.7191, 13.8765, 13.2646

Tritanomaly

13.4957, 14.0054, 15.6277

Monochromacy



Original Color

12.9886, 13.9509, 13.0746

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

13.0082, 13.7833, 14.2867

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9886, 13.9509, 13.0746 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(105, 105, 96)` looks like.

```
.text, #text, p{  
    color:rgb(105, 105, 96)  
}
```

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(105, 105, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 105, 96) }
```

Border

The CSS property to change the border of an element to XYZ 12.9886, 13.9509, 13.0746 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(105, 105, 96) }
```


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

```
.border{ border-color:rgb(105, 105, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 105, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 105, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 105, 96);  
box-shadow:4px 4px 4px 4px rgb(105, 105,  
96) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9886, 13.9509, 13.0746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 105, 96) }
```

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

```
.background{ background-color: rgb(105,  
105, 96) }
```

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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