

Converting Colors

XYZ(12.9094, 12.6728, 16.6614)

Have a look what the booklet for
XYZ(12.9094, 12.6728, 16.6614)
contains.

XYZ(12.9696, 12.7003, 16.8068)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9696, 12.7003,
16.8068)**

Conversions

Conversions Part 1

Format	Color
Hex	69616F
RGB	105, 97, 111
RGB Percent	41%, 38%, 44%
CMY	0.5882, 0.6196, 0.5647
CMYK	0.05, 0.13, 0.00, 0.56
HSL	274°, 7%, 41%
HSV	274°, 13%, 44%
XYZ	12.9696, 12.7003, 16.8068
YIQ	100.9880, 0.2740, 6.0500

Conversions

Conversions Part 2

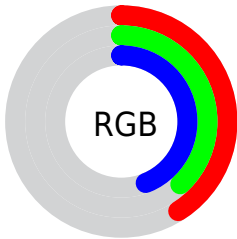
Format	Color
R_{YB}	105, 97, 111
Decimal	6906223
CIE _{Lab}	42.31, 6.09, -6.75
CIE _{LCh}	42, 9.091, 312.024
Yxy	12.7003, 0.3053, 0.2990
Android (android.graphics.Color)	4285096303 (0xFF69616F)
YUV	100.9880, 4.9359, 3.5185
Hunter-Lab	35.6375, 2.5962, -3.0152

Details

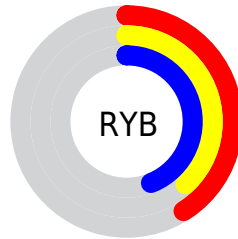
The XYZ color **12.9696, 12.7003, 16.8068** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.4361, 15.1159, 13.5193**, and the grayscale version is **12.3544, 12.9978, 14.1546**.

A 20% lighter version of the original color is **30.9111, 30.8921, 38.9839**, and **3.8260, 3.6261, 5.2009** is the 20% darker color. If you saturate the color by 10%, you get **11.4717, 10.5109, 16.4633**, and if you desaturate by 10%, it is **14.6431, 15.1940, 17.2001**.

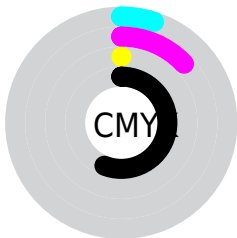
Distribution



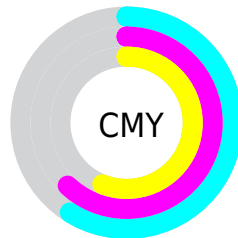
- Red (41%)
- Green (38%)
- Blue (44%)



- Red (41%)
- Yellow (38%)
- Blue (44%)



- Cyan (5%)
- Magenta (13%)
- Yellow (0%)
- Black (56%)



- Cyan (59%)
- Magenta (62%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9696, 12.7003, 16.8068 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 12.9696, 12.7003, 16.8068 by changing the saturation by 10% instead.

■ 12.9696, 12.7003,
16.8068

■ 12.9696, 12.7003,
16.8068

204.3643,
208.9879, 246.0627

■ 7.4845, 7.2225,
9.9363

■ 30.8509, 30.7643,
38.7794

■ 3.8159, 3.6016,
5.2517

■ 43.9779, 44.1193,
54.7186

■ 1.5985, 1.4533,
2.3344

■ 60.3828, 60.8688,
74.5178

■ 0.3914, 0.2555,
0.7504

■ 80.4310, 81.3972,
98.5955

■ 0.0000, 0.0000,
0.0000

104.4879,
106.0889, 127.3704

132.9188,

135.3284, 161.2608

166.0892,
169.4999, 200.6854

■ 12.9696, 12.7003,
16.8068

■ 12.9696, 12.7003,
16.8068

■ 11.4717, 10.5109,
16.4633

■ 14.6431, 15.1940,
17.2001

■ 10.1418, 8.6120,
16.1669

■ 16.4970, 18.0018,
17.6444

■ 8.9735, 6.9913,
15.9157

■ 18.5377, 21.1350,
18.1416

■ 7.9592, 5.6348,
15.7073

■ 20.7705, 24.6039,
18.6935

■ 7.0912, 4.5272,
15.5393

■ 23.2007, 28.4184,
19.3017

6.3605, 3.6519,
15.4088

25.8334, 32.5880,
19.9677

5.7572, 2.9898,
15.3128

28.6734, 37.1215,
20.6931

5.2688, 2.5169,
15.2473

31.7254, 42.0279,
21.4793

4.9463, 2.2184,
15.2067

34.9940, 47.3155,
22.3276

Harmonies

Analogous

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



12.3462, 12.7003, 17.8319



12.9696, 12.7003, 16.8068



13.3606, 12.7003, 15.0189

Triad

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



12.9696, 12.7003, 16.8068



12.4801, 12.7003, 10.5581



10.8348, 12.7003, 14.6248

Complementary

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



12.9696, 12.7003, 16.8068



13.4361, 15.1159, 13.5193

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.



10.8676, 12.7003, 12.7027



12.9696, 12.7003, 16.8068



11.8004, 12.7003, 10.4742

Square

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



12.9696, 12.7003, 16.8068



13.0707, 12.7003, 11.4660



11.2154, 12.7003, 11.2246



11.1241, 12.7003, 16.4951

Rectangle

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



12.9696, 12.7003, 16.8068



13.4283, 12.7003, 13.6964



11.2154, 12.7003, 11.2246



10.8089, 12.7003, 13.9614

Sweetspot

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



12.9700, 12.7008, 16.8071



25.7514, 26.5030, 30.6881



12.6564, 13.4033, 16.9592



6.1401, 6.2975, 7.3617



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



12.9700, 12.7008, 16.8071



22.4431, 21.5919, 29.9146



13.6487, 13.0567, 16.5720



3.3829, 3.3857, 4.2294



5.7985, 2.5986, 17.9176



27.8829, 12.4285, 89.2085

Inverse Universe

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



13.2789, 12.9087, 14.6244



23.1161, 22.0442, 25.1881



12.8161, 14.7912, 13.7188



3.4383, 3.4230, 3.8350



8.3307, 4.2247, 3.5514



41.0840, 20.8789, 15.5063

Previews

White Background



This preview shows how the XYZ color 12.9696, 12.7003, 16.8068 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 12.9696, 12.7003, 16.8068 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 12.9696, 12.7003, 16.8068

Background



This preview shows how black text looks on a background with the XYZ color 12.9696, 12.7003, 16.8068.



This preview shows how white text looks on a background with the XYZ color 12.9696, 12.7003,

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

12.9696, 12.7003, 16.8068

Protanopia

12.4235, 12.6902, 17.1239

Deuteranopia

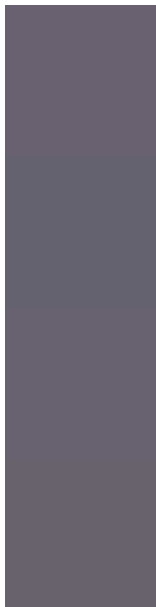
12.8529, 12.6401, 16.8013



Tritanopia

12.6781, 12.7190, 15.4225

Trichromacy



Original Color

12.9696, 12.7003, 16.8068

Protanomaly

12.6591, 12.6719, 17.1079

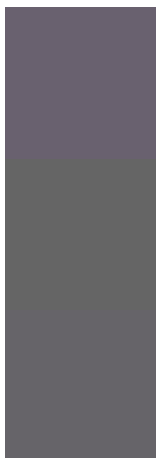
Deuteranomaly

12.8529, 12.6401, 16.8013

Tritanomaly

12.7834, 12.7611, 15.9767

Monochromacy



Original Color

12.9696, 12.7003, 16.8068

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.5865, 12.9590, 15.2026

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9696, 12.7003, 16.8068 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, 97, 111)` looks like.

```
.text, #text, p{  
    color:rgb(105, 97, 111)  
}
```

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, 97, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 97, 111) }
```

Border

The CSS property to change the border of an element to XYZ 12.9696, 12.7003, 16.8068 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, 97, 111) }
```


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

```
.border{ border-color:rgb(105, 97, 111) }
```

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

Here you see how a box with a 4 pixel rgb(105, 97, 111) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 97, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 97, 111);  
box-shadow:4px 4px 4px 4px rgb(105, 97,  
111) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9696, 12.7003, 16.8068 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 97, 111) }
```

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

```
.background{ background-color: rgb(105, 97,  
111) }
```

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