

Converting Colors

XYZ(12.7044, 16.3428, 3.9203)

Have a look what the booklet for
XYZ(12.7044, 16.3428, 3.9203)
contains.

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Color

**XYZ(12.6970, 16.3067,
3.9171)**

Conversions

Conversions Part 1

Format	Color
Hex	697721
RGB	105, 119, 33
RGB Percent	41%, 47%, 13%
CMY	0.5882, 0.5333, 0.8706
CMYK	0.12, 0.00, 0.72, 0.53
HSL	70°, 57%, 30%
HSV	70°, 72%, 47%
XYZ	12.6970, 16.3067, 3.9171
YIQ	105.0100, 19.2620, -29.7140

Conversions

Conversions Part 2

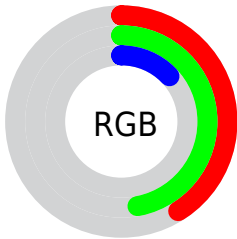
Format	Color
R_{YB}	33, 119, 47
Decimal	6911777
CIE _{Lab}	47.37, -17.57, 43.24
CIE _{LCh}	47, 46.675, 112.109
Yxy	16.3067, 0.3857, 0.4953
Android (android.graphics.Color)	4285101857 (0xFF697721)
YUV	105.0100, -35.5009, -0.0088
Hunter-Lab	40.3816, -14.5427, 22.5158

Details

The XYZ color **12.6970, 16.3067, 3.9171** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **5.0464, 3.0243, 17.7715**, and the grayscale version is **13.5198, 14.2239, 15.4899**.

A 20% lighter version of the original color is **30.4223, 37.1213, 13.7453**, and **3.8288, 5.3187, 0.8248** is the 20% darker color. If you saturate the color by 10%, you get **12.3341, 16.1361, 3.1789**, and if you desaturate by 10%, it is **13.1248, 16.5050, 4.9668**.

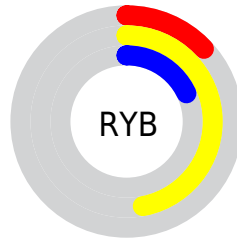
Distribution



Red (41%)

Green (47%)

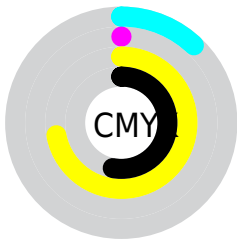
Blue (13%)



Red (13%)

Yellow (47%)

Blue (18%)

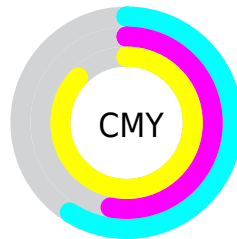


Cyan (12%)

Magenta (0%)

Yellow (72%)

Black (53%)



Cyan (59%)

Magenta (53%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6970, 16.3067, 3.9171 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 12.6970, 16.3067, 3.9171 by changing the saturation by 10% instead.

12.6970, 16.3067,
3.9171

12.6970, 16.3067,
3.9171

202.6436,
231.1447, 147.2994

7.2958, 9.7414,
1.5800

30.3643, 37.1298,
13.8181

3.6957, 5.2279,
0.2765

43.3611, 52.1565,
22.2191

1.5315, 2.3816,
0.0000

59.6205, 70.7724,
33.4784

0.3471, 0.8164,
0.0000

79.5079, 93.3620,
48.0146

0.0000, 0.0000,
0.0000

103.3885,
120.3096, 66.2463

131.6277,

151.9997, 88.5920

164.5910,
188.8166, 115.4702

12.6970, 16.3067,
3.9171

12.6970, 16.3067,
3.9171

12.3341, 16.1361,
3.1789

13.1248, 16.5050,
4.9668

12.0283, 15.9884,
2.7164

13.6221, 16.7311,
6.3566

11.8114, 15.8824,
2.4431

14.1942, 16.9878,
8.1129

14.8456, 17.2767,
10.2592

15.5804, 17.5997,
12.8170

■ 16.4024, 17.9582,
15.8064

■ 17.3153, 18.3536,
19.2460

■ 18.3224, 18.7873,
23.1535

■ 19.4270, 19.2607,
27.5454

Harmonies

Analogous

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



16.6155, 16.3067, 3.4086



12.6970, 16.3067, 3.9171



10.0366, 16.3067, 7.1266

Triad

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



12.6970, 16.3067, 3.9171



11.1138, 16.3067, 42.4453



24.7756, 16.3067, 21.0657

Complementary

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



12.6970, 16.3067, 3.9171



5.0464, 3.0243, 17.7715

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.



22.6524, 16.3067, 35.7160



12.6970, 16.3067, 3.9171



14.4337, 16.3067, 51.1743

Square

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



12.6970, 16.3067, 3.9171



9.2422, 16.3067, 27.7696



18.6857, 16.3067, 48.2785



24.0863, 16.3067, 10.4945

Rectangle

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



12.6970, 16.3067, 3.9171



9.1012, 16.3067, 11.6425



18.6857, 16.3067, 48.2785



24.3557, 16.3067, 25.7025

Sweetspot

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



12.6974, 16.3074, 3.9174



27.8581, 31.4967, 22.8063



8.8559, 5.9784, 2.1262



6.5330, 7.4341, 5.1602



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.6974, 16.3074, 3.9174



21.6956, 28.7060, 5.0695



8.9282, 14.3644, 3.7410



3.9109, 4.2376, 3.9541



12.5416, 16.8698, 2.5952



60.5080, 81.8948, 12.6182

Inverse Universe

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



5.0464, 3.0243, 17.7715



7.1822, 3.3909, 31.5290



7.9844, 4.5389, 17.9090



3.5511, 3.6159, 4.6010



3.8248, 1.5631, 18.6427



18.1418, 7.3610, 90.8249

Previews

White Background



This preview shows how the XYZ color 12.6970, 16.3067, 3.9171 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 12.6970, 16.3067, 3.9171 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

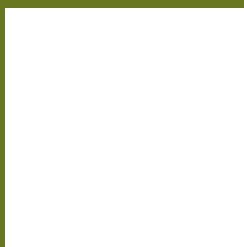
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.6970, 16.3067, 3.9171

Background



This preview shows how black text looks on a background with the XYZ color 12.6970, 16.3067, 3.9171.



This preview shows how white text looks on a background with the XYZ color 12.6970, 16.3067,

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

12.6970, 16.3067, 3.9171

Protanopia

14.6457, 16.1229, 3.6364

Deuteranopia

16.4228, 16.2308, 4.1010



Tritanopia

16.0140, 16.3024, 20.0719

Trichromacy



Original Color

12.6970, 16.3067, 3.9171

Protanomaly

13.8627, 16.2173, 3.7661

Deuteranomaly

14.7553, 16.0083, 3.9813

Tritanomaly

14.3343, 16.1187, 11.5882

Monochromacy



Original Color

12.6970, 16.3067, 3.9171

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.8129, 14.7196, 9.5630

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6970, 16.3067, 3.9171 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, 119, 33)` looks like.

```
.text, #text, p{  
    color:rgb(105, 119, 33)  
}
```

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, 119, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 119, 33) }
```

Border

The CSS property to change the border of an element to XYZ 12.6970, 16.3067, 3.9171 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, 119, 33) }
```


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

```
.border{ border-color:rgb(105, 119, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 119, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 119, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 119, 33);  
box-shadow:4px 4px 4px 4px rgb(105, 119,  
33) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6970, 16.3067, 3.9171 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 119, 33) }
```

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

```
.background{ background-color: rgb(105,  
119, 33) }
```

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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