

Converting Colors

XYZ(12.7299, 16.8584, 16.3099)

Have a look what the booklet for
XYZ(12.7299, 16.8584, 16.3099)
contains.

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Color

**XYZ(12.6650, 16.7430,
16.1999)**

Conversions

Conversions Part 1

Format	Color
Hex	4C7B6A
RGB	76, 123, 106
RGB Percent	30%, 48%, 42%
CMY	0.7020, 0.5176, 0.5843
CMYK	0.38, 0.00, 0.14, 0.52
HSL	158°, 24%, 39%
HSV	158°, 38%, 48%
XYZ	12.6650, 16.7430, 16.1999
YIQ	107.0090, -22.5550, -15.2510

Conversions

Conversions Part 2

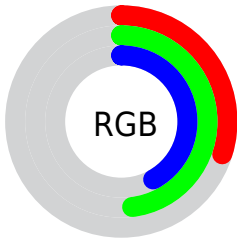
Format	Color
RYB	76, 105, 123
Decimal	5012330
CIELab	47.93, -20.20, 4.25
CIELCh	48, 20.640, 168.105
Yxy	16.7430, 0.2777, 0.3671
Android (android.graphics.Color)	4283202410 (0xFF4C7B6A)
YUV	107.0090, -0.4974, -27.1949
Hunter-Lab	40.9182, -16.3576, 5.1693

Details

The XYZ color **12.6650, 16.7430, 16.1999** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.7292, 10.1707, 11.6489**, and the grayscale version is **13.9838, 14.7121, 16.0214**.

A 20% lighter version of the original color is **30.3635, 37.9970, 37.6321**, and **3.6902, 5.4463, 4.9944** is the 20% darker color. If you saturate the color by 10%, you get **11.5543, 16.1969, 14.9715**, and if you desaturate by 10%, it is **13.9755, 17.3916, 17.5011**.

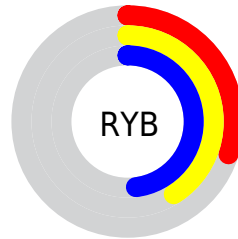
Distribution



Red (30%)

Green (48%)

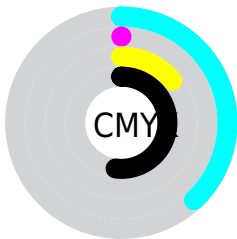
Blue (42%)



Red (30%)

Yellow (41%)

Blue (48%)

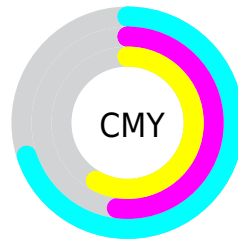


Cyan (38%)

Magenta (0%)

Yellow (14%)

Black (52%)



Cyan (70%)

Magenta (52%)

Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6650, 16.7430, 16.1999 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 12.6650, 16.7430, 16.1999 by changing the saturation by 10% instead.

■ 12.6650, 16.7430,
16.1999

■ 12.6650, 16.7430,
16.1999

202.4407,
233.6870, 242.4043

■ 7.2737, 10.0514,
9.5098

■ 30.3071, 37.8834,
37.7165

■ 3.6817, 5.4331,
4.9739

■ 43.2885, 53.1010,
53.3801

■ 1.5237, 2.5035,
2.1735

■ 59.5308, 71.9293,
72.8720

■ 0.3419, 0.8784,
0.6590

■ 79.3991, 94.7529,
96.6107

■ 0.0000, 0.0000,
0.0000

■ 103.2589,
121.9561, 125.0147

131.4755,

153.9232, 158.5026

164.4143,
191.0387, 197.4930

■ 12.6650, 16.7430,
16.1999

■ 12.6650, 16.7430,
16.1999

■ 11.5543, 16.1969,
14.9715

■ 13.9755, 17.3916,
17.5011

■ 10.6313, 15.7457,
13.8132

■ 15.4944, 18.1458,
18.8753

■ 9.8842, 15.3840,
12.7240

■ 17.2316, 19.0110,
20.3241

■ 9.2999, 15.1047,
11.7022

■ 19.1957, 19.9919,
21.8491

■ 8.8628, 14.9001,
10.7461

■ 21.3951, 21.0925,
23.4512

■ 8.5332, 14.7496,
9.8528

■ 23.8375, 22.3169,
25.1319

■ 8.4767, 14.7239,
9.6990

■ 26.5304, 23.6690,
26.8922

■ 29.4811, 25.1525,
28.7333

■ 32.6962, 26.7707,
30.6564

Harmonies

Analogous

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



13.3977, 16.7430, 12.2114



12.6650, 16.7430, 16.1999



12.7513, 16.7430, 21.6013

Triad

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



12.6650, 16.7430, 16.1999



17.0509, 16.7430, 29.7988



18.4229, 16.7430, 11.6207

Complementary

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



12.6650, 16.7430, 16.1999



12.7292, 10.1707, 11.6489

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.



19.5600, 16.7430, 15.2296



12.6650, 16.7430, 16.1999



18.7265, 16.7430, 25.9592

Square

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



12.6650, 16.7430, 16.1999



15.1880, 16.7430, 30.1989



19.6753, 16.7430, 20.4236



16.6622, 16.7430, 9.9336

Rectangle

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



12.6650, 16.7430, 16.1999



13.2626, 16.7430, 25.3080



19.6753, 16.7430, 20.4236



18.8964, 16.7430, 12.6130

Sweetspot

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



12.6655, 16.7437, 16.2003



29.8620, 33.5470, 35.5859



12.9259, 17.0278, 9.4433



6.9518, 7.8604, 8.3140



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.6655, 16.7437, 16.2003



20.8885, 29.1008, 27.0407



12.8865, 15.6277, 21.0769



4.0484, 4.4890, 4.7889



8.7661, 15.2301, 10.0192



41.3966, 72.4817, 45.5881

Inverse Universe

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



12.7292, 10.1707, 11.6489



21.0234, 15.5200, 17.6531



12.5109, 10.8082, 8.2646



4.0527, 4.0368, 4.4750



8.9276, 4.5472, 2.9098



42.2101, 21.5404, 11.9025

Previews

White Background



This preview shows how the XYZ color 12.6650, 16.7430, 16.1999 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 12.6650, 16.7430, 16.1999 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 12.6650, 16.7430, 16.1999

Background



This preview shows how black text looks on a background with the XYZ color 12.6650, 16.7430, 16.1999.

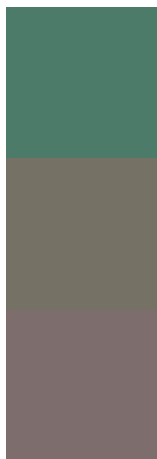


This preview shows how white text looks on a background with the XYZ color 12.6650, 16.7430,

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

12.6650, 16.7430, 16.1999

Protanopia

15.7253, 16.6014, 14.6875

Deuteranopia

16.8331, 16.4770, 16.7612



Tritanopia

14.1586, 16.8118, 23.2676

Trichromacy



Original Color

12.6650, 16.7430, 16.1999

Protanomaly

14.4030, 16.5854, 15.2742

Deuteranomaly

14.9084, 16.3055, 16.5489

Tritanomaly

13.5968, 16.7607, 20.6077

Monochromacy



Original Color

12.6650, 16.7430, 16.1999

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.3828, 15.3586, 16.1691

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6650, 16.7430, 16.1999 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(76, 123, 106)` looks like.

```
.text, #text, p{  
    color:rgb(76, 123, 106)  
}
```

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(76, 123, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 123, 106) }
```

Border

The CSS property to change the border of an element to XYZ 12.6650, 16.7430, 16.1999 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(76, 123, 106) }
```


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

```
.border{ border-color:rgb(76, 123, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 123, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 123, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 123, 106);  
box-shadow:4px 4px 4px 4px rgb(76, 123,  
106) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6650, 16.7430, 16.1999 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 123, 106) }
```

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

```
.background{ background-color: rgb(76, 123,  
106) }
```

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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