

# Converting Colors

XYZ(12.3436, 15.0870, 13.3031)

Have a look what the booklet for  
XYZ(12.3436, 15.0870, 13.3031)  
contains.

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# Color

**XYZ(12.3451, 15.0528,  
13.3212)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5A7260
RGB	90, 114, 96
RGB Percent	35%, 45%, 38%
CMY	0.6471, 0.5529, 0.6235
CMYK	0.21, 0.00, 0.16, 0.55
HSL	135°, 12%, 40%
HSV	135°, 21%, 45%
XYZ	12.3451, 15.0528, 13.3212
YIQ	104.7720, -8.5260, -10.6860

# Conversions

## Conversions Part 2

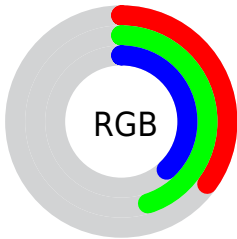
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	90, 109, 114
Decimal	5927520
CIE <sub>Lab</sub>	45.71, -12.76, 7.10
CIE <sub>LCh</sub>	46, 14.605, 150.897
Yxy	15.0528, 0.3032, 0.3697
Android (android.graphics.Color)	4284117600 (0xFF5A7260)
YUV	104.7720, -4.3246, -12.9550
Hunter-Lab	38.7979, -11.0995, 6.8014

# Details

The XYZ color **12.3451, 15.0528, 13.3212** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.3029, 11.9728, 15.7979**, and the grayscale version is **13.3789, 14.0756, 15.3284**.

A 20% lighter version of the original color is **29.7179, 34.9545, 32.7844**, and **3.5626, 4.6622, 3.7297** is the 20% darker color. If you saturate the color by 10%, you get **10.9477, 14.3759, 11.3115**, and if you desaturate by 10%, it is **13.9563, 15.8358, 15.5651**.

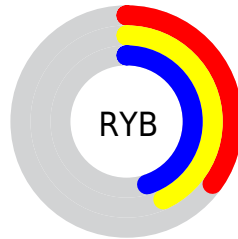
# Distribution



 Red (35%)

 Green (45%)

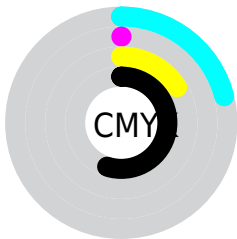
 Blue (38%)



 Red (35%)

 Yellow (43%)

 Blue (45%)

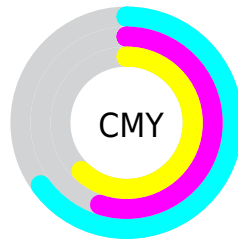


 Cyan (21%)


 Magenta (0%)

 Yellow (16%)

 Black (55%)



 Cyan (65%)

 Magenta (55%)

 Yellow (62%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3451, 15.0528, 13.3212 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 12.3451, 15.0528, 13.3212 by changing the saturation by 10% instead.



■ 12.3451, 15.0528,  
13.3212

■ 12.3451, 15.0528,  
13.3212

200.4003,  
223.6856, 224.2457

■ 7.0530, 8.8565,  
7.5168

■ 29.7335, 34.9458,  
32.5792

■ 3.5419, 4.6477,  
3.7040

■ 42.5606, 49.4112,  
46.8699

■ 1.4464, 2.0421,  
1.4644

■ 58.6300, 67.4018,  
64.8265

■ 0.2889, 0.6317,  
0.1912

■ 78.3072, 89.3019,  
86.8674

■ 0.0000, 0.0000,  
0.0000

101.9575,  
115.4959, 113.4113

129.9462,

146.3683, 144.8766

162.6387,  
182.3034, 181.6819

■ 12.3451, 15.0528,  
13.3212

■ 12.3451, 15.0528,  
13.3212

■ 10.9477, 14.3759,  
11.3115

■ 13.9563, 15.8358,  
15.5651

■ 9.7538, 13.7986,  
9.5275

■ 15.7885, 16.7273,  
18.0494

■ 8.7539, 13.3168,  
7.9615

■ 17.8503, 17.7318,  
20.7813

■ 7.9376, 12.9252,  
6.6052

■ 20.1493, 18.8533,  
23.7674

■ 7.2931, 12.6178,  
5.4495

■ 22.6928, 20.0953,  
27.0142

■ 6.8076, 12.3884,  
4.4848

■ 25.4877, 21.4613,  
30.5276

■ 6.4660, 12.2293,  
3.7007

■ 28.5409, 22.9546,  
34.3138

■ 6.2332, 12.1214,  
3.1414

■ 31.8586, 24.5784,  
38.3783

■ 35.4472, 26.3359,  
42.7268

# Harmonies

## Analogous

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



13.1308, 15.0528, 11.2533



12.3451, 15.0528, 13.3212



12.0776, 15.0528, 16.4959

# Triad

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



12.3451, 15.0528, 13.3212



14.3442, 15.0528, 24.1080



16.4265, 15.0528, 13.1624

# Complementary

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



12.3451, 15.0528, 13.3212



13.3029, 11.9728, 15.7979

# 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.



16.7956, 15.0528, 16.2845



12.3451, 15.0528, 13.3212



15.5520, 15.0528, 22.8912

# Square

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



12.3451, 15.0528, 13.3212



13.1912, 15.0528, 23.0235



16.4670, 15.0528, 19.8971



15.4845, 15.0528, 11.1712



# Rectangle

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



12.3451, 15.0528, 13.3212



12.2164, 15.0528, 18.9175



16.4670, 15.0528, 19.8971



16.6240, 15.0528, 14.0982

# Sweetspot

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



12.3455, 15.0534, 13.3215



26.0520, 28.5700, 29.4362



14.0965, 15.9868, 12.0159



5.9913, 6.5909, 6.7619



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.



12.3455, 15.0534, 13.3215



20.5207, 25.8833, 21.7373



12.9198, 15.2831, 16.3456



3.3761, 3.7756, 3.7870



6.9323, 13.4904, 3.4643



34.2329, 67.0818, 15.6776



# Inverse Universe

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



13.3029, 11.9728, 15.7979



22.5061, 19.4932, 26.8711



12.7259, 11.7420, 12.7592



3.4805, 3.4399, 4.0571



9.5657, 4.7186, 10.0547

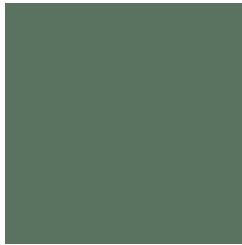


47.2928, 23.3624, 48.2012



# Previews

## White Background



This preview shows how the XYZ color 12.3451, 15.0528, 13.3212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

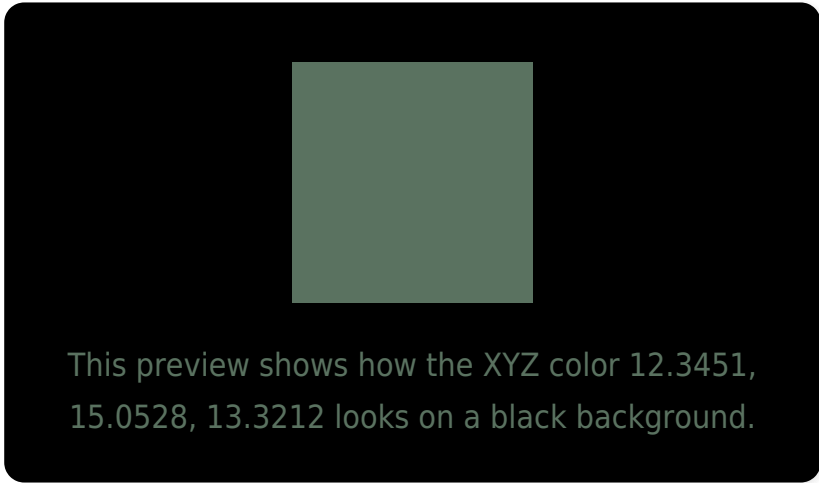
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## 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 12.3451, 15.0528, 13.3212**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.3451, 15.0528, 13.3212.



This preview shows how white text looks on a background with the XYZ color 12.3451, 15.0528,



# 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

12.3451, 15.0528, 13.3212

### Protanopia

14.1484, 15.0261, 12.5106

### Deuteranopia

15.1810, 14.9200, 13.6350



## Tritanopia

13.6907, 15.1046, 19.9632

# Trichromacy



## Original Color

12.3451, 15.0528, 13.3212

## Protanomaly

13.4220, 14.9633, 12.7705

## Deuteranomaly

13.9506, 14.9032, 13.4506

## Tritanomaly

13.1776, 15.0632, 17.2519

# Monochromacy



## Original Color

12.3451, 15.0528, 13.3212

## Achromatopsia

13.4271, 14.1263, 15.3836

## Achromatomaly

13.0164, 14.3938, 14.6626

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.3451, 15.0528, 13.3212 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(90, 114, 96) looks like.

```
.text, #text, p{  
    color:rgb(90, 114, 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(90, 114, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 114, 96) }
```

## Border

The CSS property to change the border of an element to XYZ 12.3451, 15.0528, 13.3212 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(90, 114, 96) }
```



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

```
.border{ border-color:rgb(90, 114, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 114, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 114, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 114, 96);  
box-shadow:4px 4px 4px 4px rgb(90, 114,  
96) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.3451, 15.0528, 13.3212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 114, 96) }
```

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

```
.background{ background-color: rgb(90, 114,  
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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