

# Converting Colors

XYZ(15.3904, 19.0029, 16.1775)

Have a look what the booklet for  
XYZ(15.3904, 19.0029, 16.1775)  
contains.

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# Color

**XYZ(15.4146, 19.1109,  
16.2409)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	638069
RGB	99, 128, 105
RGB Percent	39%, 50%, 41%
CMY	0.6118, 0.4980, 0.5882
CMYK	0.23, 0.00, 0.18, 0.50
HSL	132°, 13%, 45%
HSV	132°, 23%, 50%
XYZ	15.4146, 19.1109, 16.2409
YIQ	116.7070, -9.9010, -13.3010

# Conversions

## Conversions Part 2

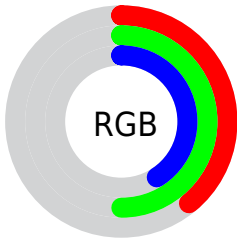
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 123, 128
Decimal	6520937
CIELab	50.82, -15.33, 9.13
CIElCh	51, 17.849, 149.219
Yxy	19.1109, 0.3036, 0.3764
Android (android.graphics.Color)	4284711017 (0xFF638069)
YUV	116.7070, -5.7716, -15.5290
Hunter-Lab	43.7160, -13.5626, 8.5744

# Details

The XYZ color **15.4146, 19.1109, 16.2409** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **16.8775, 14.9186, 20.4034**, and the grayscale version is **16.8378, 17.7147, 19.2913**.

A 20% lighter version of the original color is **35.1023, 41.9321, 37.6961**, and **4.9759, 6.6275, 5.0200** is the 20% darker color. If you saturate the color by 10%, you get **13.6345, 18.2505, 13.5945**, and if you desaturate by 10%, it is **17.4797, 20.1121, 19.2267**.

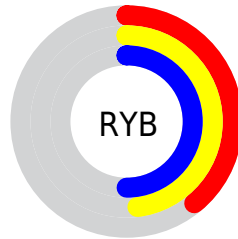
# Distribution



 Red (39%)

 Green (50%)

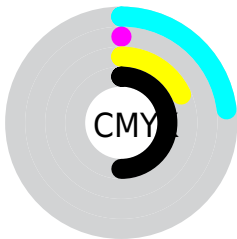
 Blue (41%)




 Red (39%)

 Yellow (48%)

 Blue (50%)

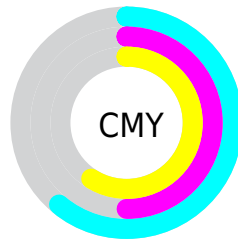



 Cyan (23%)

 Magenta (0%)

 Yellow (18%)

 Black (50%)



 Cyan (61%)

 Magenta (50%)

 Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.4146, 19.1109, 16.2409 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 15.4146, 19.1109, 16.2409 by changing the saturation by 10% instead.



■ 15.4146, 19.1109,  
16.2409

■ 15.4146, 19.1109,  
16.2409

219.2011,  
247.0603, 242.6531

■ 9.1991, 11.7504,  
9.5386

■ 35.1446, 41.9214,  
37.7885

■ 4.9294, 6.5740,  
4.9925

■ 49.3898, 58.1402,  
53.4709

■ 2.2402, 3.1971,  
2.1842

■ 67.0423, 78.0807,  
72.9837

■ 0.7638, 1.2355,  
0.6652

■ 88.4674, 102.1271,  
96.7455

■ 0.0000, 0.0904,  
0.0000

114.0304,  
130.6638, 125.1748

■ 0.0000, 0.0000,  
0.0000

144.0969,

164.0754, 158.6901

179.0320,  
202.7461, 197.7100

■ 15.4146, 19.1109,  
16.2409

■ 15.4146, 19.1109,  
16.2409

■ 13.6345, 18.2505,  
13.5945

■ 17.4797, 20.1121,  
19.2267

■ 12.1253, 17.5223,  
11.2743

■ 19.8402, 21.2576,  
22.5619

■ 10.8739, 16.9203,  
9.2679

■ 22.5076, 22.5537,  
26.2580

■ 9.8657, 16.4372,  
7.5619

■ 25.4925, 24.0055,  
30.3253

■ 9.0842, 16.0650,  
6.1417

■ 28.8050, 25.6181,  
34.7736

■ 8.5111, 15.7944,  
4.9915

■ 32.4546, 27.3962,  
39.6128

■ 8.1250, 15.6148,  
4.0942

■ 36.4506, 29.3444,  
44.8518

■ 7.9114, 15.5158,  
3.5835

■ 40.8018, 31.4670,  
50.4998

■ 45.5167, 33.7683,  
56.5654

# Harmonies

## Analogous

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



16.5651, 19.1109, 13.4572



15.4146, 19.1109, 16.2409



14.9924, 19.1109, 20.6770

# Triad

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



15.4146, 19.1109, 16.2409



18.1184, 19.1109, 32.0554



21.2741, 19.1109, 16.4351

# Complementary

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



15.4146, 19.1109, 16.2409



16.8775, 14.9186, 20.4034

# 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.



21.7548, 19.1109, 20.9406



15.4146, 19.1109, 16.2409



19.8633, 19.1109, 30.4428

# Square

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



15.4146, 19.1109, 16.2409



16.4903, 19.1109, 30.2734



21.2231, 19.1109, 26.1611



19.9480, 19.1109, 13.5559



# Rectangle

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



15.4146, 19.1109, 16.2409



15.1583, 19.1109, 24.1576



21.2231, 19.1109, 26.1611



21.5436, 19.1109, 17.7842

# Sweetspot

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



15.4151, 19.1117, 16.2413



32.9926, 36.4850, 36.9996



18.0265, 20.4923, 14.8101



7.6808, 8.5209, 8.6009



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

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



15.4151, 19.1117, 16.2413



25.5221, 32.8650, 26.2075



16.2132, 19.4310, 20.4441



4.3096, 4.8322, 4.8017



7.8448, 15.3845, 3.5555



0.0000, 0.0000, 0.0000



# Inverse Universe

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



16.8775, 14.9186, 20.4034



28.5531, 24.1711, 34.8320



16.0554, 14.5897, 16.0742



4.4613, 4.3977, 5.2334



11.1821, 5.4925, 12.8146



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 15.4146, 19.1109, 16.2409 looks on a white 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



# Black Background



This preview shows how the XYZ color 15.4146, 19.1109, 16.2409 looks on a black 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

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

**XYZ 15.4146, 19.1109, 16.2409**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.4146, 19.1109, 16.2409.



This preview shows how white text looks on a background with the XYZ color 15.4146, 19.1109,



# 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

15.4146, 19.1109, 16.2409

### Protanopia

17.8178, 18.8846, 15.0179

### Deuteranopia

19.2158, 18.8707, 16.5395



## Tritanopia

17.2196, 19.0796, 25.3294

# Trichromacy



## Original Color

15.4146, 19.1109, 16.2409

## Protanomaly

16.8174, 18.9071, 15.3334

## Deuteranomaly

17.4864, 18.6845, 16.3205

## Tritanomaly

16.3883, 18.9221, 21.5275

# Monochromacy



## Original Color

15.4146, 19.1109, 16.2409

## Achromatopsia

16.9083, 17.7888, 19.3720

## Achromatomaly

16.2484, 18.1820, 18.2759

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.4146, 19.1109, 16.2409 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(99, 128, 105) looks like.

```
.text, #text, p{  
    color:rgb(99, 128, 105)  
}
```

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(99, 128, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 128, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 15.4146, 19.1109, 16.2409 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(99, 128, 105) }
```



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

```
.border{ border-color:rgb(99, 128, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 128, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 128, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 128, 105);  
box-shadow:4px 4px 4px 4px rgb(99, 128,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.4146, 19.1109, 16.2409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 128, 105) }
```

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

```
.background{ background-color: rgb(99, 128,  
105) }
```

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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