

Converting Colors

XYZ(12.8644, 15.6145, 15.4333)

Have a look what the booklet for
XYZ(12.8644, 15.6145, 15.4333)
contains.

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Color

**XYZ(12.8639, 15.6141,
15.4325)**

Conversions

Conversions Part 1

Format	Color
Hex	597468
RGB	89, 116, 104
RGB Percent	35%, 45%, 41%
CMY	0.6510, 0.5451, 0.5922
CMYK	0.23, 0.00, 0.10, 0.55
HSL	153°, 13%, 40%
HSV	153°, 23%, 45%
XYZ	12.8639, 15.6141, 15.4325
YIQ	106.5590, -12.2400, -9.4560

Conversions

Conversions Part 2

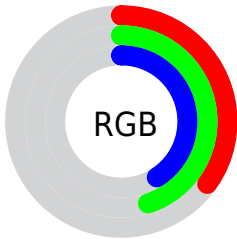
Format	Color
R_{YB}	89, 106, 116
Decimal	5862504
CIE Lab	46.46, -12.53, 3.42
CIE LCh	46, 12.987, 164.733
Yxy	15.6141, 0.2930, 0.3556
Android (android.graphics.Color)	4284052584 (0xFF597468)
YUV	106.5590, -1.2616, -15.3992
Hunter-Lab	39.5147, -11.0405, 4.5045

Details

The XYZ color **12.8639, 15.6141, 15.4325** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.1244, 11.7977, 13.8981**, and the grayscale version is **13.8593, 14.5811, 15.8788**.

A 20% lighter version of the original color is **30.5665, 35.8608, 36.3211**, and **3.8019, 4.9432, 4.6247** is the 20% darker color. If you saturate the color by 10%, you get **11.5834, 14.9837, 14.0471**, and if you desaturate by 10%, it is **14.3367, 16.3426, 16.9111**.

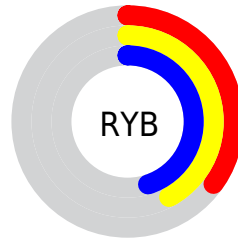
Distribution



Red (35%)

Green (45%)

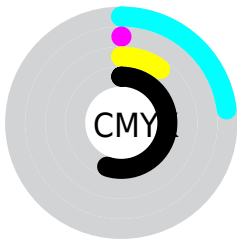
Blue (41%)



Red (35%)

Yellow (42%)

Blue (45%)

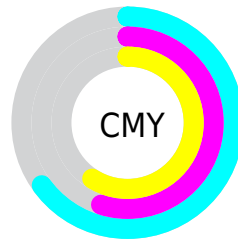


Cyan (23%)

Magenta (0%)

Yellow (10%)

Black (55%)



Cyan (65%)

Magenta (55%)

Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8639, 15.6141, 15.4325 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 12.8639, 15.6141, 15.4325 by changing the saturation by 10% instead.

■ 12.8639, 15.6141,
15.4325

■ 12.8639, 15.6141,
15.4325

203.6988,
227.0537, 237.6996

■ 7.4112, 9.2515,
8.9735

■ 30.6625, 35.9270,
36.3631

■ 3.7692, 4.9056,
4.6273

■ 43.7391, 50.6460,
51.6718

■ 1.5724, 2.1920,
1.9754

■ 60.0877, 68.9193,
70.7675

■ 0.3743, 0.7156,
0.5401

■ 80.0737, 91.1313,
94.0687

■ 0.0000, 0.0000,
0.0000

■ 104.0625,
117.6663, 121.9940

132.4194,

148.9088, 154.9619

165.5097,
185.2431, 193.3909

■ 12.8639, 15.6141,
15.4325

■ 12.8639, 15.6141,
15.4325

■ 11.5834, 14.9837,
14.0471

■ 14.3367, 16.3426,
16.9111

■ 10.4855, 14.4453,
12.7521

■ 16.0086, 17.1714,
18.4838

■ 9.5614, 13.9946,
11.5459

■ 17.8873, 18.1049,
20.1527

■ 8.8012, 13.6267,
10.4264

■ 19.9799, 19.1468,
21.9194

■ 8.1938, 13.3359,
9.3914

■ 22.2933, 20.3005,
23.7856

■ 7.7268, 13.1158,
8.4388

■ 24.8338, 21.5692,
25.7530

■ 7.3839, 12.9579,
7.5661

■ 27.6076, 22.9562,
27.8230

■ 7.1837, 12.8666,
7.0215

■ 30.6207, 24.4645,
29.9973

■ 33.8787, 26.0970,
32.2774

Harmonies

Analogous

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



13.3800, 15.6141, 12.9955



12.8639, 15.6141, 15.4325



12.8592, 15.6141, 18.6137

Triad

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



12.8639, 15.6141, 15.4325



15.3936, 15.6141, 23.6699



16.4192, 15.6141, 13.0294

Complementary

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



12.8639, 15.6141, 15.4325



13.1244, 11.7977, 13.8981

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.



17.0160, 15.6141, 15.4844



12.8639, 15.6141, 15.4325



16.4041, 15.6141, 21.7552

Square

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



12.8639, 15.6141, 15.4325



14.2824, 15.6141, 23.6514



17.0104, 15.6141, 18.6725



15.4134, 15.6141, 11.7313

Rectangle

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



12.8639, 15.6141, 15.4325



13.1449, 15.6141, 20.7516



17.0104, 15.6141, 18.6725



16.6765, 15.6141, 13.7321

Sweetspot

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



12.8643, 15.6147, 15.4328



26.9501, 29.5931, 31.3916



13.4327, 15.9881, 11.8295



6.4009, 7.0458, 7.4623



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757

Same Dimension

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



12.8643, 15.6147, 15.4328



21.3482, 26.8235, 25.7838



13.3636, 15.5673, 18.8242



3.7178, 4.1291, 4.3480



8.0520, 14.4348, 7.8299



38.8019, 70.1680, 35.8574

Inverse Universe

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



13.1244, 11.7977, 13.8981



21.8914, 18.8540, 22.5805



12.6919, 11.8062, 11.0613



3.7453, 3.7254, 4.1856



8.7582, 4.4370, 3.9349



42.2619, 21.4549, 16.9747

Previews

White Background



This preview shows how the XYZ color 12.8639, 15.6141, 15.4325 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 12.8639, 15.6141, 15.4325 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

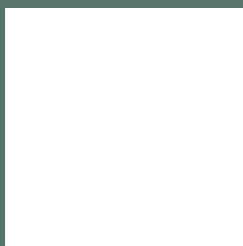
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8639, 15.6141, 15.4325

Background



This preview shows how black text looks on a background with the XYZ color 12.8639, 15.6141, 15.4325.



This preview shows how white text looks on a background with the XYZ color 12.8639, 15.6141,

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

12.8639, 15.6141, 15.4325

Protanopia

14.7083, 15.4348, 14.2606

Deuteranopia

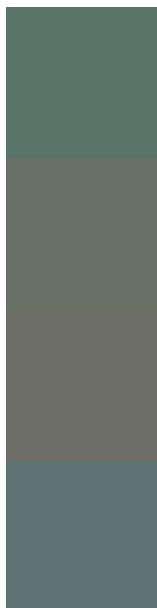
15.7816, 15.4863, 15.7930



Tritanopia

13.9322, 15.5426, 20.6781

Trichromacy



Original Color

12.8639, 15.6141, 15.4325

Protanomaly

13.9688, 15.5312, 14.5735

Deuteranomaly

14.5561, 15.4868, 15.5867

Tritanomaly

13.5255, 15.5477, 18.5078

Monochromacy



Original Color

12.8639, 15.6141, 15.4325

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.4330, 14.9018, 15.8040

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8639, 15.6141, 15.4325 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(89, 116, 104) looks like.

```
.text, #text, p{  
    color:rgb(89, 116, 104)  
}
```

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(89, 116, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 116, 104) }
```

Border

The CSS property to change the border of an element to XYZ 12.8639, 15.6141, 15.4325 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(89, 116, 104) }
```


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

```
.border{ border-color:rgb(89, 116, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 116, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 116, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 116, 104);  
box-shadow:4px 4px 4px 4px rgb(89, 116,  
104) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8639, 15.6141, 15.4325 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 116, 104) }
```

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

```
.background{ background-color: rgb(89, 116,  
104) }
```

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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