

Converting Colors

XYZ(12.8667, 16.2735, 13.4176)

Have a look what the booklet for
XYZ(12.8667, 16.2735, 13.4176)
contains.

XYZ(12.9476, 16.4013, 13.5497)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9476, 16.4013,
13.5497)**

Conversions

Conversions Part 1

Format	Color
Hex	597860
RGB	89, 120, 96
RGB Percent	35%, 47%, 38%
CMY	0.6510, 0.5294, 0.6235
CMYK	0.26, 0.00, 0.20, 0.53
HSL	134°, 15%, 41%
HSV	134°, 26%, 47%
XYZ	12.9476, 16.4013, 13.5497
YIQ	107.9950, -10.7720, -14.0360

Conversions

Conversions Part 2

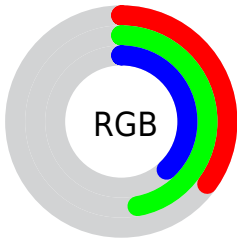
Format	Color
RYB	89, 114, 120
Decimal	5863520
CIELab	47.50, -16.42, 9.63
CIELCh	47, 19.037, 149.626
Yxy	16.4013, 0.3018, 0.3823
Android (android.graphics.Color)	4284053600 (0xFF597860)
YUV	107.9950, -5.9135, -16.6586
Hunter-Lab	40.4985, -13.8050, 8.5121

Details

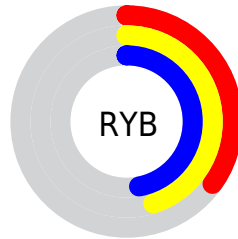
The XYZ color **12.9476, 16.4013, 13.5497** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.2993, 12.3304, 17.2498**, and the grayscale version is **14.2710, 15.0142, 16.3505**.

A 20% lighter version of the original color is **30.8342, 37.1871, 33.1565**, and **3.7838, 5.2290, 3.8275** is the 20% darker color. If you saturate the color by 10%, you get **11.4859, 15.6948, 11.3790**, and if you desaturate by 10%, it is **14.6485, 17.2262, 15.9963**.

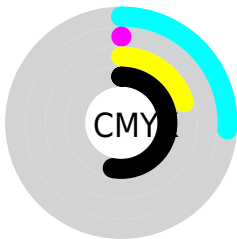
Distribution



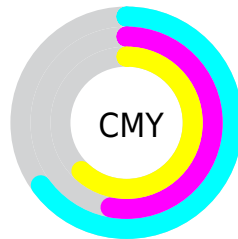
- Red (35%)
- Green (47%)
- Blue (38%)



- Red (35%)
- Yellow (45%)
- Blue (47%)



- Cyan (26%)
- Magenta (0%)
- Yellow (20%)
- Black (53%)



- Cyan (65%)
- Magenta (53%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9476, 16.4013, 13.5497 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 12.9476, 16.4013, 13.5497 by changing the saturation by 10% instead.

■ 12.9476, 16.4013,
13.5497

■ 12.9476, 16.4013,
13.5497

204.2260,
231.6982, 225.7414

■ 7.4692, 9.8086,
7.6730

■ 30.8117, 37.2935,
32.9934

■ 3.8062, 5.2722,
3.8017

■ 43.9282, 52.3617,
47.3975

■ 1.5931, 2.4079,
1.5172

■ 60.3214, 71.0239,
65.4811

■ 0.3879, 0.8299,
0.2307

■ 80.3567, 93.6645,
87.6629

■ 0.0000, 0.0000,
0.0000

■ 104.3994,
120.6678, 114.3612

132.8150,

152.4183, 145.9947

165.9687,
189.3003, 182.9819

■ 12.9476, 16.4013,
13.5497

■ 12.9476, 16.4013,
13.5497

■ 11.4859, 15.6948,
11.3790

■ 14.6485, 17.2262,
15.9963

■ 10.2512, 15.0992,
9.4733

■ 16.5975, 18.1726,
18.7267

■ 9.2323, 14.6094,
7.8229

■ 18.8045, 19.2457,
21.7503

■ 8.4165, 14.2191,
6.4168

■ 21.2785, 20.4500,
25.0752

■ 7.7895, 13.9212,
5.2433

■ 24.0282, 21.7900,
28.7096

■ 7.3353, 13.7077,
4.2898

■ 27.0617, 23.2695,
32.6612

■ 7.0262, 13.5646,
3.5420

■ 30.3870, 24.8925,
36.9375

■ 6.9157, 13.5131,
3.2866

■ 34.0115, 26.6628,
41.5456

■ 37.9426, 28.5839,
46.4926

Harmonies

Analogous

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



14.0356, 16.4013, 10.9225



12.9476, 16.4013, 13.5497



12.5571, 16.4013, 17.7975

Triad

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



12.9476, 16.4013, 13.5497



15.5677, 16.4013, 28.8877



18.5910, 16.4013, 13.6375

Complementary

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



12.9476, 16.4013, 13.5497



14.2993, 12.3304, 17.2498

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.



19.0732, 16.4013, 17.9191



12.9476, 16.4013, 13.5497



17.2529, 16.4013, 27.2421

Square

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



12.9476, 16.4013, 13.5497



14.0013, 16.4013, 27.1615



18.5671, 16.4013, 22.9951



17.2923, 16.4013, 10.9664

Rectangle

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



12.9476, 16.4013, 13.5497



12.7214, 16.4013, 21.1735



18.5671, 16.4013, 22.9951



18.8579, 16.4013, 14.9084

Sweetspot

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



12.9480, 16.4020, 13.5501



28.3409, 31.5480, 31.7555



15.3668, 17.6845, 12.0549



6.6090, 7.4244, 7.3759



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.



12.9480, 16.4020, 13.5501



21.1992, 28.0856, 21.5113



13.7180, 16.7100, 17.6045



3.9845, 4.4634, 4.4524



7.5395, 14.7394, 3.5597



35.6905, 70.1992, 15.5402

Inverse Universe

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



14.2993, 12.3304, 17.2498



24.0003, 19.6412, 29.1776



13.5130, 12.0159, 13.1091



4.1176, 4.0628, 4.8170



10.5955, 5.2144, 11.6927



50.2088, 24.7399, 54.0231

Previews

White Background



This preview shows how the XYZ color 12.9476, 16.4013, 13.5497 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 12.9476, 16.4013, 13.5497 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

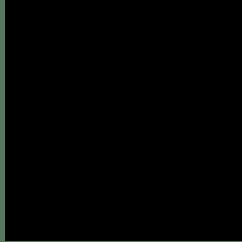
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9476, 16.4013, 13.5497

Background



This preview shows how black text looks on a background with the XYZ color 12.9476, 16.4013, 13.5497.



This preview shows how white text looks on a background with the XYZ color 12.9476, 16.4013,

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

12.9476, 16.4013, 13.5497

Protanopia

15.3337, 16.2830, 12.4600

Deuteranopia

16.4693, 16.1962, 13.8134



Tritanopia

14.5632, 16.3511, 21.7906

Trichromacy



Original Color

12.9476, 16.4013, 13.5497

Protanomaly

14.2909, 16.2399, 12.7373

Deuteranomaly

14.8913, 16.0288, 13.6183

Tritanomaly

13.8122, 16.2128, 18.3210

Monochromacy



Original Color

12.9476, 16.4013, 13.5497

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.6597, 15.3545, 15.3405

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9476, 16.4013, 13.5497 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, 120, 96) looks like.

```
.text, #text, p{  
    color:rgb(89, 120, 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(89, 120, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 120, 96) }
```

Border

The CSS property to change the border of an element to XYZ 12.9476, 16.4013, 13.5497 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, 120, 96) }
```


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

```
.border{ border-color:rgb(89, 120, 96) }
```

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

Here you see how a box with a 4 pixel rgb(89, 120, 96) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 120, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 120, 96);  
box-shadow:4px 4px 4px 4px rgb(89, 120,  
96) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9476, 16.4013, 13.5497 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 120, 96) }
```

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

```
.background{ background-color: rgb(89, 120,  
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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