

Converting Colors

XYZ(12.9943, 15.7763, 16.5618)

Have a look what the booklet for
XYZ(12.9943, 15.7763, 16.5618)
contains.

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Color

**XYZ(12.9985, 15.8315,
16.5581)**

Conversions

Conversions Part 1

Format	Color
Hex	57756C
RGB	87, 117, 108
RGB Percent	34%, 46%, 42%
CMY	0.6588, 0.5412, 0.5765
CMYK	0.26, 0.00, 0.08, 0.54
HSL	162°, 15%, 40%
HSV	162°, 26%, 46%
XYZ	12.9985, 15.8315, 16.5581
YIQ	107.0040, -14.9910, -9.1590

Conversions

Conversions Part 2

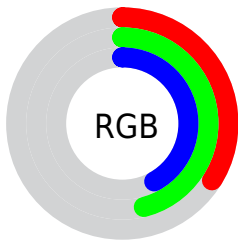
Format	Color
RYB	87, 105, 117
Decimal	5731692
CIELab	46.75, -12.88, 1.44
CIElCh	47, 12.961, 173.616
Yxy	15.8315, 0.2864, 0.3488
Android (android.graphics.Color)	4283921772 (0xFF57756C)
YUV	107.0040, 0.4910, -17.5435
Hunter-Lab	39.7888, -11.3168, 3.1787

Details

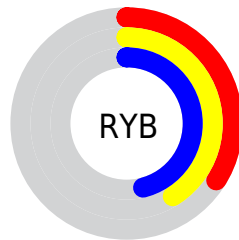
The XYZ color **12.9985, 15.8315, 16.5581** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.8561, 11.4431, 12.5980**, and the grayscale version is **13.9782, 14.7062, 16.0150**.

A 20% lighter version of the original color is **30.9272, 36.2824, 38.1741**, and **3.8455, 5.0443, 5.1858** is the 20% darker color. If you saturate the color by 10%, you get **11.8105, 15.2406, 15.5470**, and if you desaturate by 10%, it is **14.3720, 16.5180, 17.6178**.

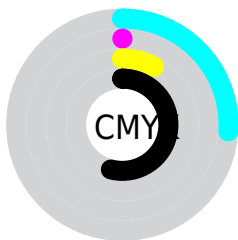
Distribution



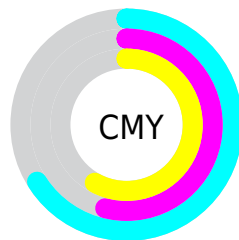
- Red (34%)
- Green (46%)
- Blue (42%)



- Red (34%)
- Yellow (41%)
- Blue (46%)



- Cyan (26%)
- Magenta (0%)
- Yellow (8%)
- Black (54%)



- Cyan (66%)
- Magenta (54%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9985, 15.8315, 16.5581 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 12.9985, 15.8315, 16.5581 by changing the saturation by 10% instead.

■ 12.9985, 15.8315,
16.5581

■ 12.9985, 15.8315,
16.5581

204.5458,
228.3454, 244.5699

■ 7.5045, 9.4050,
9.7613

■ 30.9024, 36.3054,
38.3446

■ 3.8287, 5.0063,
5.1375

■ 44.0431, 51.1217,
54.1714

■ 1.6057, 2.2509,
2.2680

■ 60.4633, 69.5032,
73.8453

■ 0.3961, 0.7476,
0.7132

■ 80.5285, 91.8346,
97.7848

■ 0.0000, 0.0000,
0.0000

■ 104.6040,
118.5001, 126.4085

133.0551,

149.8841, 160.1349

166.2473,
186.3711, 199.3825

■ 12.9985, 15.8315,
16.5581

■ 12.9985, 15.8315,
16.5581

■ 11.8105, 15.2406,
15.5470

■ 14.3720, 16.5180,
17.6178

■ 10.7980, 14.7390,
14.5827

■ 15.9378, 17.3022,
18.7259

■ 9.9523, 14.3224,
13.6644

■ 17.7037, 18.1888,
19.8836

■ 9.2630, 13.9857,
12.7915

■ 19.6770, 19.1814,
21.0915

■ 8.7189, 13.7230,
11.9627

■ 21.8644, 20.2834,
22.3505

■ 8.3070, 13.5276,
11.1770

■ 24.2723, 21.4983,
23.6613

■ 8.0033, 13.3872,
10.4328

■ 26.9071, 22.8291,
25.0245

■ 7.8807, 13.3308,
10.1202

■ 29.7745, 24.2789,
26.4410

■ 32.8803, 25.8507,
27.9112

Harmonies

Analogous

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



13.3723, 15.8315, 13.8180



12.9985, 15.8315, 16.5581



13.1512, 15.8315, 19.8404

Triad

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



12.9985, 15.8315, 16.5581



15.9306, 15.8315, 23.5595



16.3673, 15.8315, 12.7162

Complementary

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



12.9985, 15.8315, 16.5581



12.8561, 11.4431, 12.5980

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.



17.1175, 15.8315, 14.8734



12.9985, 15.8315, 16.5581



16.8567, 15.8315, 21.1798

Square

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



12.9985, 15.8315, 16.5581



14.8081, 15.8315, 24.1561



17.3010, 15.8315, 17.9359



15.2892, 15.8315, 11.7853

Rectangle

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



12.9985, 15.8315, 16.5581



13.5351, 15.8315, 21.8739



17.3010, 15.8315, 17.9359



16.6683, 15.8315, 13.3080

Sweetspot

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



12.9989, 15.8322, 16.5585



27.7860, 30.6046, 33.0139



12.9587, 15.9254, 11.4079



6.3056, 6.9950, 7.5326



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.



12.9989, 15.8322, 16.5585



21.9275, 27.6777, 28.5246



12.8810, 14.7894, 19.0061



3.7387, 4.1375, 4.4581



8.6755, 14.6842, 11.1130



41.8849, 71.4012, 52.0922

Inverse Universe

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



12.8561, 11.4431, 12.5980



21.6248, 18.3432, 20.1067



12.9275, 12.2116, 10.6927



3.7250, 3.7173, 4.0786



8.4124, 4.2987, 2.1139



40.6577, 20.8132, 8.5269

Previews

White Background



This preview shows how the XYZ color 12.9985, 15.8315, 16.5581 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 12.9985, 15.8315, 16.5581 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 12.9985, 15.8315, 16.5581

Background



This preview shows how black text looks on a background with the XYZ color 12.9985, 15.8315, 16.5581.



This preview shows how white text looks on a background with the XYZ color 12.9985, 15.8315,

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

12.9985, 15.8315, 16.5581

Protanopia

15.0141, 15.7287, 15.3413

Deuteranopia

15.9573, 15.7061, 16.9424



Tritanopia

13.9853, 15.8904, 21.3988

Trichromacy



Original Color

12.9985, 15.8315, 16.5581

Protanomaly

14.1638, 15.7732, 15.6626

Deuteranomaly

14.7514, 15.7242, 16.7256

Tritanomaly

13.6352, 15.9226, 19.4943

Monochromacy



Original Color

12.9985, 15.8315, 16.5581

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.5938, 15.1397, 16.1157

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9985, 15.8315, 16.5581 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(87, 117, 108)` looks like.

```
.text, #text, p{  
    color:rgb(87, 117, 108)  
}
```

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(87, 117, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 117, 108) }
```

Border

The CSS property to change the border of an element to XYZ 12.9985, 15.8315, 16.5581 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(87, 117, 108) }
```


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

```
.border{ border-color:rgb(87, 117, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 117, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 117, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 117, 108);  
box-shadow:4px 4px 4px 4px rgb(87, 117,  
108) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9985, 15.8315, 16.5581 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 117, 108) }
```

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

```
.background{ background-color: rgb(87, 117,  
108) }
```

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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