

Converting Colors

XYZ(12.4505, 13.1578, 16.3614)

Have a look what the booklet for
XYZ(12.4505, 13.1578, 16.3614)
contains.

XYZ(12.4415, 13.1483, 16.3501)	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(12.4415, 13.1483,
16.3501)**

Conversions

Conversions Part 1

Format	Color
Hex	61666D
RGB	97, 102, 109
RGB Percent	38%, 40%, 43%
CMY	0.6196, 0.6000, 0.5725
CMYK	0.11, 0.06, 0.00, 0.57
HSL	215°, 6%, 40%
HSV	215°, 11%, 43%
XYZ	12.4415, 13.1483, 16.3501
YIQ	101.3030, -5.2270, 1.1170

Conversions

Conversions Part 2

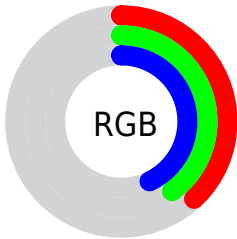
Format	Color
R_{YB}	97, 101, 109
Decimal	6383213
CIE Lab	42.99, -0.38, -4.60
CIE LCh	43, 4.620, 265.314
Yxy	13.1483, 0.2967, 0.3135
Android (android.graphics.Color)	4284573293 (0xFF61666D)
YUV	101.3030, 3.7946, -3.7737
Hunter-Lab	36.2606, -2.2102, -1.3518

Details

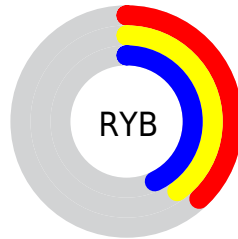
The XYZ color **12.4415, 13.1483, 16.3501** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.4147, 14.0148, 13.3077**, and the grayscale version is **12.4398, 13.0876, 14.2524**.

A 20% lighter version of the original color is **29.9491, 31.6164, 37.7818**, and **3.6009, 3.7840, 5.0980** is the 20% darker color. If you saturate the color by 10%, you get **10.7580, 11.3886, 16.0994**, and if you desaturate by 10%, it is **14.3333, 15.0872, 16.6249**.

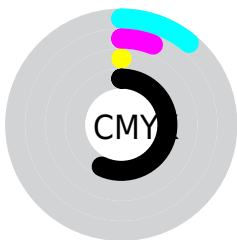
Distribution



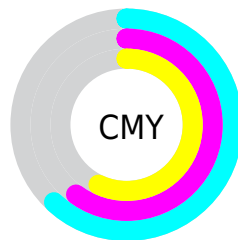
- Red (38%)
- Green (40%)
- Blue (43%)



- Red (38%)
- Yellow (40%)
- Blue (43%)



- Cyan (11%)
- Magenta (6%)
- Yellow (0%)
- Black (57%)



- Cyan (62%)
- Magenta (60%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4415, 13.1483, 16.3501 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 12.4415, 13.1483, 16.3501 by changing the saturation by 10% instead.

■ 12.4415, 13.1483,
16.3501

■ 12.4415, 13.1483,
16.3501

201.0174,
211.8659, 243.3147

■ 7.1194, 7.5307,
9.6152

■ 29.9066, 31.5700,
37.9801

■ 3.5839, 3.7962,
5.0423

■ 42.7804, 45.1428,
53.7124

■ 1.4695, 1.5602,
2.2129

■ 58.9021, 62.1363,
73.2808

■ 0.3050, 0.3306,
0.6818

■ 78.6371, 82.9347,
97.1039

■ 0.0000, 0.0000,
0.0000

102.3508,
107.9225, 125.6004

130.4085,

137.4840, 159.1886

163.1756,
172.0037, 198.2872

■ 12.4415, 13.1483,
16.3501

■ 12.4415, 13.1483,
16.3501

■ 10.7580, 11.3886,
16.0994

■ 14.3333, 15.0872,
16.6249

■ 9.2742, 9.8010,
15.8711

■ 16.4393, 17.2090,
16.9234

■ 7.9824, 8.3803,
15.6650

■ 18.7669, 19.5190,
17.2466

■ 6.8739, 7.1204,
15.4802

■ 21.3223, 22.0222,
17.5951

■ 5.9396, 6.0146,
15.3161

■ 24.1119, 24.7231,
17.9694

■ 5.1692, 5.0560,
15.1716

■ 27.1416, 27.6261,
18.3700

■ 4.5515, 4.2366,
15.0460

■ 30.4171, 30.7355,
18.7976

■ 4.0733, 3.5479,
14.9383

■ 33.9440, 34.0556,
19.2525

■ 3.7153, 3.0140,
14.8541

■ 37.7276, 37.5903,
19.7354

Harmonies

Analogous

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



12.1134, 13.1483, 15.9812



12.4415, 13.1483, 16.3501



12.7906, 13.1483, 16.1533

Triad

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



12.4415, 13.1483, 16.3501



13.1231, 13.1483, 13.4981



11.9452, 13.1483, 13.2345

Complementary

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



12.4415, 13.1483, 16.3501



13.4147, 14.0148, 13.3077

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.



12.2080, 13.1483, 12.6240



12.4415, 13.1483, 16.3501



12.8888, 13.1483, 12.7712

Square

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



12.4415, 13.1483, 16.3501



13.1884, 13.1483, 14.4762



12.5528, 13.1483, 12.4585



11.8303, 13.1483, 14.1575

Rectangle

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



12.4415, 13.1483, 16.3501



12.9877, 13.1483, 15.7325



12.5528, 13.1483, 12.4585



12.0190, 13.1483, 12.9877

Sweetspot

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



12.4419, 13.1489, 16.3504



24.9318, 26.2689, 29.6636



12.8872, 14.4743, 15.1583



5.7458, 6.0558, 6.8948



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.4419, 13.1489, 16.3504



21.5368, 22.7751, 29.1682



12.0508, 12.2394, 16.1955



3.0424, 3.2131, 3.8947



4.3223, 3.4789, 17.3659



21.2053, 16.0892, 88.2141

Inverse Universe

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



12.9800, 12.7603, 14.3499



22.6934, 21.9615, 24.8632



13.8352, 15.0012, 13.4759



3.1472, 3.1358, 3.5055



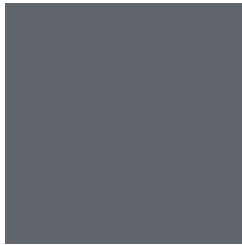
7.9286, 4.0235, 3.2523



39.9863, 20.3365, 14.3963

Previews

White Background



This preview shows how the XYZ color 12.4415, 13.1483, 16.3501 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 12.4415, 13.1483, 16.3501 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

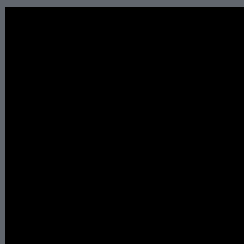
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

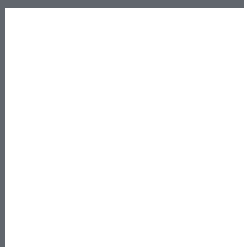
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.4415, 13.1483, 16.3501

Background



This preview shows how black text looks on a background with the XYZ color 12.4415, 13.1483, 16.3501.

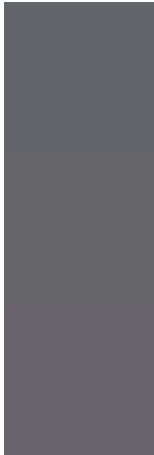


This preview shows how white text looks on a background with the XYZ color 12.4415, 13.1483,

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

12.4415, 13.1483, 16.3501

Protanopia

12.7273, 13.1568, 16.0561

Deuteranopia

13.3397, 13.1753, 16.5919



Tritanopia

12.4956, 13.1699, 16.6353

Trichromacy



Original Color

12.4415, 13.1483, 16.3501

Protanomaly

12.6160, 13.0994, 16.0509

Deuteranomaly

12.9652, 13.1237, 16.6016

Tritanomaly

12.4956, 13.1699, 16.6353

Monochromacy



Original Color

12.4415, 13.1483, 16.3501

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.4079, 13.0162, 14.9551

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4415, 13.1483, 16.3501 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(97, 102, 109) looks like.

```
.text, #text, p{  
    color:rgb(97, 102, 109)  
}
```

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(97, 102, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 102, 109) }
```

Border

The CSS property to change the border of an element to XYZ 12.4415, 13.1483, 16.3501 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(97, 102, 109) }
```


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

```
.border{ border-color:rgb(97, 102, 109) }
```

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

Here you see how a box with a 4 pixel rgb(97, 102, 109) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 102, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 102, 109);  
box-shadow:4px 4px 4px 4px rgb(97, 102,  
109) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4415, 13.1483, 16.3501 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 102, 109) }
```

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

```
.background{ background-color: rgb(97, 102,  
109) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor