

Converting Colors

XYZ(12.4822, 18.3486, 16.3850)

Have a look what the booklet for
XYZ(12.4822, 18.3486, 16.3850)
contains.

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Color

**XYZ(12.5401, 18.4130,
16.5288)**

Conversions

Conversions Part 1

Format	Color
Hex	39846A
RGB	57, 132, 106
RGB Percent	22%, 52%, 42%
CMY	0.7765, 0.4823, 0.5843
CMYK	0.57, 0.00, 0.20, 0.48
HSL	159°, 40%, 37%
HSV	159°, 57%, 52%
XYZ	12.5401, 18.4130, 16.5288
YIQ	106.6110, -36.3540, -23.9860

Conversions

Conversions Part 2

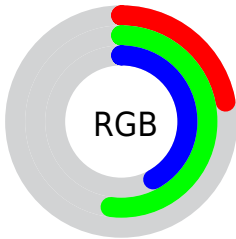
Format	Color
RYB	57, 102, 132
Decimal	3769450
CIELab	49.99, -29.91, 7.09
CIELCh	50, 30.742, 166.663
Yxy	18.4130, 0.2641, 0.3878
Android (android.graphics.Color)	4281959530 (0xFF39846A)
YUV	106.6110, -0.3012, -43.5088
Hunter-Lab	42.9104, -22.9284, 7.1991

Details

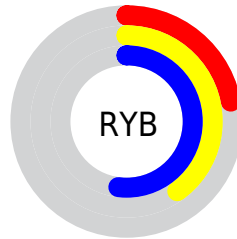
The XYZ color **12.5401, 18.4130, 16.5288** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **12.5408, 8.4567, 9.1555**, and the grayscale version is **13.8759, 14.5986, 15.8978**.

A 20% lighter version of the original color is **30.2003, 40.9316, 38.2072**, and **3.8067, 6.3504, 5.1628** is the 20% darker color. If you saturate the color by 10%, you get **11.6516, 17.9822, 15.2782**, and if you desaturate by 10%, it is **13.6380, 18.9512, 17.8564**.

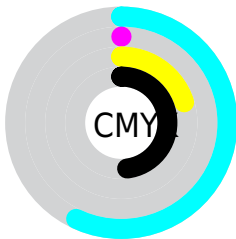
Distribution



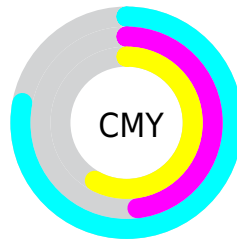
- Red (22%)
- Green (52%)
- Blue (42%)



- Red (22%)
- Yellow (40%)
- Blue (52%)



- Cyan (57%)
- Magenta (0%)
- Yellow (20%)
- Black (48%)



- Cyan (78%)
- Magenta (48%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5401, 18.4130, 16.5288 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 12.5401, 18.4130, 16.5288 by changing the saturation by 10% instead.

■ 12.5401, 18.4130,
16.5288

■ 12.5401, 18.4130,
16.5288

201.6466,
243.1887, 244.3935

■ 7.1874, 11.2469,
9.7407

■ 30.0834, 40.7398,
38.2933

■ 3.6270, 6.2332,
5.1240

■ 43.0048, 56.6693,
54.1068

■ 1.4933, 2.9874,
2.2602

■ 59.1798, 76.2888,
73.7659

■ 0.3213, 1.1251,
0.7088

■ 78.9738, 99.9825,
97.6890

■ 0.0000, 0.0000,
0.0000

■ 102.7521,
128.1350, 126.2948

■ 130.8801,

161.1306, 160.0018

163.7231,
199.3537, 199.2285

■ 12.5401, 18.4130,
16.5288

■ 12.5401, 18.4130,
16.5288

■ 11.6516, 17.9822,
15.2782

■ 13.6380, 18.9512,
17.8564

■ 10.9553, 17.6486,
14.1014

■ 14.9578, 19.6019,
19.2612

■ 10.4337, 17.4036,
12.9971

■ 16.5129, 20.3723,
20.7454

■ 10.0531, 17.2299,
11.9625

■ 18.3149, 21.2685,
22.3104

■ 9.9410, 17.1790,
11.6468

■ 20.3750, 22.2962,
23.9577

■ 22.7034, 23.4606,
25.6886

■ 25.3097, 24.7668,
27.5045

■ 28.2033, 26.2193,
29.4068

■ 31.3929, 27.8229,
31.3967

Harmonies

Analogous

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



13.6899, 18.4130, 10.8363



12.5401, 18.4130, 16.5288



12.6085, 18.4130, 25.0786

Triad

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



12.5401, 18.4130, 16.5288



19.1790, 18.4130, 39.9939



21.6911, 18.4130, 10.3997

Complementary

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



12.5401, 18.4130, 16.5288



12.5408, 8.4567, 9.1555

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.



23.5191, 18.4130, 15.7406



12.5401, 18.4130, 16.5288



21.9609, 18.4130, 33.3968

Square

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



12.5401, 18.4130, 16.5288



16.2245, 18.4130, 40.3820



23.6231, 18.4130, 24.0357



18.8428, 18.4130, 8.0291

Rectangle

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



12.5401, 18.4130, 16.5288



13.3326, 18.4130, 31.4015



23.6231, 18.4130, 24.0357



22.4586, 18.4130, 11.8266

Sweetspot

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



12.5406, 18.4137, 16.5292



32.0703, 37.3683, 39.1395



12.5797, 18.6491, 6.8077



7.3374, 8.6357, 9.0036



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.5406, 18.4137, 16.5292



20.1601, 31.4993, 26.3389



12.6598, 16.1505, 24.2808



4.7348, 5.2522, 5.6149



9.6276, 16.6339, 11.2901



0.0368, 0.0590, 0.0573

Inverse Universe

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



12.5408, 8.4567, 9.1555



20.1758, 12.1677, 12.0994



12.3370, 9.3659, 5.0287



4.7343, 4.7134, 5.2131



9.6889, 4.9399, 2.9341



0.0368, 0.0184, 0.0270

Previews

White Background



This preview shows how the XYZ color 12.5401, 18.4130, 16.5288 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 12.5401, 18.4130, 16.5288 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

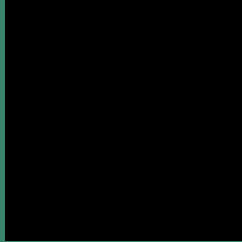
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.5401, 18.4130, 16.5288

Background



This preview shows how black text looks on a background with the XYZ color 12.5401, 18.4130, 16.5288.



This preview shows how white text looks on a background with the XYZ color 12.5401, 18.4130,

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

12.5401, 18.4130, 16.5288

Protanopia

17.1880, 18.2177, 14.4148

Deuteranopia

18.5047, 18.1470, 17.2793



Tritanopia

14.6905, 18.5023, 26.8418

Trichromacy



Original Color

12.5401, 18.4130, 16.5288

Protanomaly

14.7368, 17.8346, 15.2361

Deuteranomaly

15.4234, 17.7821, 17.0874

Tritanomaly

13.7305, 18.2969, 22.5466

Monochromacy



Original Color

12.5401, 18.4130, 16.5288

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.0191, 15.6762, 16.2495

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5401, 18.4130, 16.5288 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(57, 132, 106)` looks like.

```
.text, #text, p{  
    color:rgb(57, 132, 106)  
}
```

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(57, 132, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 132, 106) }
```

Border

The CSS property to change the border of an element to XYZ 12.5401, 18.4130, 16.5288 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(57, 132, 106) }
```


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

```
.border{ border-color:rgb(57, 132, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(57, 132, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(57, 132, 106); -webkit-box-shadow:4px 4px 4px 4px rgb(57, 132, 106); box-shadow:4px 4px 4px 4px rgb(57, 132, 106) }
```

Background

The CSS property to change the background color of an element to XYZ 12.5401, 18.4130, 16.5288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 132, 106) }
```

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

```
.background{ background-color: rgb(57, 132,  
106) }
```

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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