

Converting Colors

XYZ(12.9872, 18.8517, 16.3189)

Have a look what the booklet for
XYZ(12.9872, 18.8517, 16.3189)
contains.

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Color

**XYZ(12.9872, 18.8517,
16.3189)**

Conversions

Conversions Part 1

Format	Color
Hex	3F8569
RGB	63, 133, 105
RGB Percent	25%, 52%, 41%
CMY	0.7529, 0.4784, 0.5882
CMYK	0.53, 0.00, 0.21, 0.48
HSL	156°, 36%, 38%
HSV	156°, 53%, 52%
XYZ	12.9872, 18.8517, 16.3189
YIQ	108.8780, -32.7320, -23.5480

Conversions

Conversions Part 2

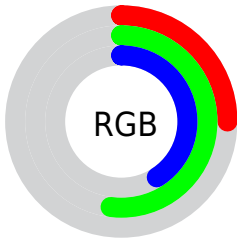
Format	Color
RYB	63, 107, 133
Decimal	4162921
CIELab	50.51, -29.16, 8.44
CIElCh	51, 30.361, 163.857
Yxy	18.8517, 0.2697, 0.3915
Android (android.graphics.Color)	4282353001 (0xFF3F8569)
YUV	108.8780, -1.9119, -40.2350
Hunter-Lab	43.4185, -22.5902, 8.1088

Details

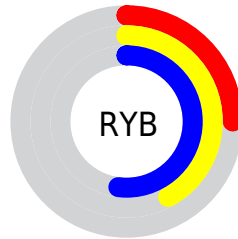
The XYZ color **12.9872, 18.8517, 16.3189** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **13.3393, 9.2973, 10.9896**, and the grayscale version is **14.5135, 15.2693, 16.6283**.

A 20% lighter version of the original color is **30.9735, 41.6540, 37.8600**, and **3.8570, 6.4920, 5.0528** is the 20% darker color. If you saturate the color by 10%, you get **11.9734, 18.3602, 14.8886**, and if you desaturate by 10%, it is **14.2244, 19.4574, 17.8498**.

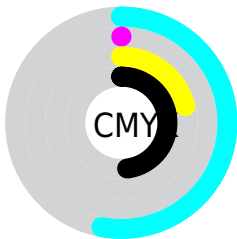
Distribution



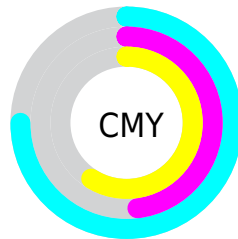
- Red (25%)
- Green (52%)
- Blue (41%)



- Red (25%)
- Yellow (42%)
- Blue (52%)



- Cyan (53%)
- Magenta (0%)
- Yellow (21%)
- Black (48%)



- Cyan (75%)
- Magenta (48%)
- Yellow (59%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9872, 18.8517, 16.3189 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 12.9872, 18.8517, 16.3189 by changing the saturation by 10% instead.

■ 12.9872, 18.8517,
16.3189

■ 12.9872, 18.8517,
16.3189

204.4749,
245.6288, 243.1258

■ 7.4967, 11.5632,
9.5933

■ 30.8823, 41.4834,
37.9254

■ 3.8237, 6.4470,
5.0281

■ 44.0176, 57.5953,
53.6434

■ 1.6029, 3.1187,
2.2047

■ 60.4318, 77.4171,
73.1960

■ 0.3943, 1.1940,
0.6771

■ 80.4904, 101.3332,
97.0016

■ 0.0000, 0.0568,
0.0000

■ 104.5586,
129.7281, 125.4789

■ 0.0000, 0.0000,
0.0000

133.0019,

162.9861, 159.0463

166.1855,
201.4915, 198.1224

■ 12.9872, 18.8517,
16.3189

■ 12.9872, 18.8517,
16.3189

■ 11.9734, 18.3602,
14.8886

■ 14.2244, 19.4574,
17.8498

■ 11.1661, 17.9727,
13.5553

■ 15.6973, 20.1821,
19.4822

■ 10.5484, 17.6810,
12.3170

■ 17.4190, 21.0330,
21.2186

■ 10.0998, 17.4747,
11.1709

■ 19.4014, 22.0162,
23.0613

■ 9.8284, 17.3519,
10.3820

■ 21.6554, 23.1374,
25.0120

■ 24.1913, 24.4017,
27.0728

■ 27.0189, 25.8142,
29.2455

■ 30.1475, 27.3797,
31.5319

■ 33.5860, 29.1027,
33.9337

Harmonies

Analogous

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



14.2561, 18.8517, 10.8719



12.9872, 18.8517, 16.3189



12.9398, 18.8517, 24.6837

Triad

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



12.9872, 18.8517, 16.3189



19.3162, 18.8517, 40.7724



22.3442, 18.8517, 11.1758

Complementary

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



12.9872, 18.8517, 16.3189



13.3393, 9.2973, 10.9896

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.



24.0327, 18.8517, 16.8640



12.9872, 18.8517, 16.3189



22.1587, 18.8517, 34.6692

Square

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



12.9872, 18.8517, 16.3189



16.3814, 18.8517, 40.5070



23.9613, 18.8517, 25.4010



19.5478, 18.8517, 8.5109

Rectangle

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



12.9872, 18.8517, 16.3189



13.5942, 18.8517, 31.0148



23.9613, 18.8517, 25.4010



23.0732, 18.8517, 12.7173

Sweetspot

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



12.9877, 18.8525, 16.3193



33.3619, 38.7397, 40.0426



13.7156, 19.4186, 7.7281



7.3782, 8.6593, 8.8934



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.



12.9877, 18.8525, 16.3193



21.1543, 32.7398, 26.2189



13.8950, 17.9727, 24.9279



4.7248, 5.2482, 5.5621



9.3655, 16.5290, 9.9100



0.0361, 0.0587, 0.0534

Inverse Universe

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



13.3393, 9.2973, 10.9896



21.8636, 13.6942, 15.6381



12.6885, 9.5816, 5.8835



4.7440, 4.7173, 5.2644



9.8339, 4.9979, 3.6977



0.0375, 0.0187, 0.0309

Previews

White Background



This preview shows how the XYZ color 12.9872, 18.8517, 16.3189 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 12.9872, 18.8517, 16.3189 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 12.9872, 18.8517, 16.3189

Background



This preview shows how black text looks on a background with the XYZ color 12.9872, 18.8517, 16.3189.



This preview shows how white text looks on a background with the XYZ color 12.9872, 18.8517,

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

12.9872, 18.8517, 16.3189

Protanopia

17.4056, 18.5111, 14.2109

Deuteranopia

18.8827, 18.5165, 17.0468



Tritanopia

15.1270, 18.7189, 27.2419

Trichromacy



Original Color

12.9872, 18.8517, 16.3189

Protanomaly

15.1501, 18.2385, 15.0338

Deuteranomaly

15.9730, 18.2530, 16.8687

Tritanomaly

14.2676, 18.7628, 22.9483

Monochromacy



Original Color

12.9872, 18.8517, 16.3189

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.5988, 16.3149, 16.6197

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9872, 18.8517, 16.3189 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(63, 133, 105)` looks like.

```
.text, #text, p{  
    color:rgb(63, 133, 105)  
}
```

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(63, 133, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 133, 105) }
```

Border

The CSS property to change the border of an element to XYZ 12.9872, 18.8517, 16.3189 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(63, 133, 105) }
```


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

```
.border{ border-color:rgb(63, 133, 105) }
```

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

Here you see how a box with a 4 pixel rgb(63, 133, 105) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 133, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 133, 105);  
box-shadow:4px 4px 4px 4px rgb(63, 133,  
105) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9872, 18.8517, 16.3189 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 133, 105) }
```

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

```
.background{ background-color: rgb(63, 133,  
105) }
```

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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