

Converting Colors

XYZ(12.3191, 16.1361, 10.4986)

Have a look what the booklet for
XYZ(12.3191, 16.1361, 10.4986)
contains.

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Color

**XYZ(12.3593, 16.1660,
10.4516)**

Conversions

Conversions Part 1

Format	Color
Hex	597852
RGB	89, 120, 82
RGB Percent	35%, 47%, 32%
CMY	0.6510, 0.5294, 0.6784
CMYK	0.26, 0.00, 0.32, 0.53
HSL	109°, 19%, 40%
HSV	109°, 32%, 47%
XYZ	12.3593, 16.1660, 10.4516
YIQ	106.3990, -6.2780, -18.3900

Conversions

Conversions Part 2

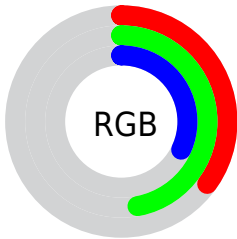
Format	Color
R_{YB}	82, 120, 113
Decimal	5863506
CIE _{Lab}	47.19, -19.07, 17.38
CIE _{LCh}	47, 25.797, 137.653
Yxy	16.1660, 0.3171, 0.4148
Android (android.graphics.Color)	4284053586 (0xFF597852)
YUV	106.3990, -12.0287, -15.2589
Hunter-Lab	40.2070, -15.4927, 12.7327

Details

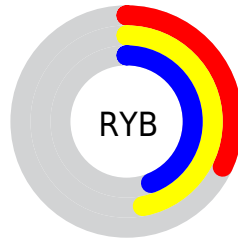
The XYZ color **12.3593, 16.1660, 10.4516** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **13.2182, 10.9019, 19.1778**, and the grayscale version is **13.8428, 14.5637, 15.8599**.

A 20% lighter version of the original color is **29.7326, 36.7464, 27.3555**, and **3.5420, 5.1323, 2.5542** is the 20% darker color. If you saturate the color by 10%, you get **11.0643, 15.5471, 8.2123**, and if you desaturate by 10%, it is **13.8600, 16.8826, 13.1182**.

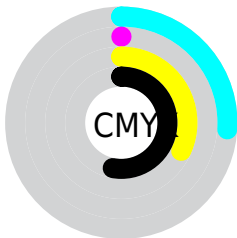
Distribution



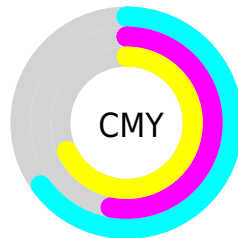
- Red (35%)
- Green (47%)
- Blue (32%)



- Red (32%)
- Yellow (47%)
- Blue (44%)



- Cyan (26%)
- Magenta (0%)
- Yellow (32%)
- Black (53%)



- Cyan (65%)
- Magenta (53%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3593, 16.1660, 10.4516 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 12.3593, 16.1660, 10.4516 by changing the saturation by 10% instead.

■ 12.3593, 16.1660,
10.4516

■ 12.3593, 16.1660,
10.4516

200.4914,
230.3193, 204.4660

■ 7.0628, 9.6417,
5.5899

■ 29.7590, 36.8861,
27.2625

■ 3.5481, 5.1620,
2.5326

■ 42.5930, 51.8508,
40.0488

■ 1.4498, 2.3427,
0.8574

■ 58.6702, 70.3976,
56.3137

■ 0.2913, 0.7961,
0.0000

■ 78.3559, 92.9111,
76.4757

■ 0.0000, 0.0000,
0.0000

■ 102.0155,
119.7757, 100.9534

130.0144,

151.3756, 130.1653

162.7179,
188.0953, 164.5300

■ 12.3593, 16.1660,
10.4516

■ 12.3593, 16.1660,
10.4516

■ 11.0643, 15.5471,
8.2123

■ 13.8600, 16.8826,
13.1182

■ 9.9647, 15.0197,
6.3770

■ 15.5736, 17.6989,
16.2316

■ 9.0512, 14.5801,
4.9220

■ 17.5086, 18.6192,
19.8113

■ 8.3131, 14.2232,
3.8206

■ 19.6725, 19.6470,
23.8753

■ 7.7387, 13.9437,
3.0426

■ 22.0725, 20.7857,
28.4409

■ 7.3146, 13.7355,
2.5528

■ 24.7156, 22.0385,
33.5243

■ 7.0499, 13.6053,
2.2545

■ 27.6084, 23.4085,
39.1411

■ 30.7572, 24.8985,
45.3061

■ 34.1681, 26.5116,
52.0337

Harmonies

Analogous

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



14.0791, 16.1660, 8.1737



12.3593, 16.1660, 10.4516



11.4830, 16.1660, 15.0615

Triad

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



12.3593, 16.1660, 10.4516



14.4505, 16.1660, 32.8587



19.9122, 16.1660, 14.0762

Complementary

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



12.3593, 16.1660, 10.4516



13.2182, 10.9019, 19.1778

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.



20.0367, 16.1660, 20.4133



12.3593, 16.1660, 10.4516



16.7276, 16.1660, 32.4066

Square

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



12.3593, 16.1660, 10.4516



12.6081, 16.1660, 28.5541



18.8230, 16.1660, 27.4391



18.4977, 16.1660, 9.8841

Rectangle

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



12.3593, 16.1660, 10.4516



11.4319, 16.1660, 19.3201



18.8230, 16.1660, 27.4391



20.1110, 16.1660, 15.9890

Sweetspot

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



12.3597, 16.1667, 10.4520



27.8498, 31.3466, 29.3917



15.1078, 16.2798, 10.3290



6.5128, 7.3873, 6.8051



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.



12.3597, 16.1667, 10.4520



20.0477, 27.6250, 15.4486



12.1902, 16.0249, 12.9001



4.0134, 4.4822, 4.2781



7.6810, 14.8369, 2.4590



36.1011, 70.4962, 11.7044

Inverse Universe

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



13.2182, 10.9019, 19.1778



21.8037, 16.8207, 33.3506



13.5024, 11.1236, 15.7914



4.0856, 4.0420, 5.0080



9.1707, 4.3004, 19.7320



43.0825, 20.1719, 94.0926

Previews

White Background



This preview shows how the XYZ color 12.3593, 16.1660, 10.4516 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 12.3593, 16.1660, 10.4516 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

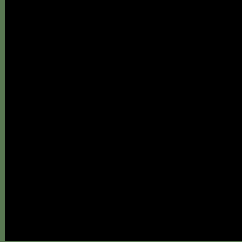
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3593, 16.1660, 10.4516

Background



This preview shows how black text looks on a background with the XYZ color 12.3593, 16.1660, 10.4516.



This preview shows how white text looks on a background with the XYZ color 12.3593, 16.1660,

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

12.3593, 16.1660, 10.4516

Protanopia

14.8053, 15.9120, 9.4987

Deuteranopia

16.2575, 15.9966, 10.8251



Tritanopia

14.5927, 16.2035, 21.4273

Trichromacy



Original Color

12.3593, 16.1660, 10.4516

Protanomaly

13.7353, 15.8504, 9.7326

Deuteranomaly

14.5969, 15.9414, 10.6952

Tritanomaly

13.6358, 16.1539, 16.8673

Monochromacy



Original Color

12.3593, 16.1660, 10.4516

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

13.0976, 14.9413, 13.5029

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3593, 16.1660, 10.4516 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, 82)` looks like.

```
.text, #text, p{  
    color:rgb(89, 120, 82)  
}
```

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, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 120, 82) }
```

Border

The CSS property to change the border of an element to XYZ 12.3593, 16.1660, 10.4516 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, 82) }
```


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

```
.border{ border-color:rgb(89, 120, 82) }
```

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, 82) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 120, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 120, 82);  
box-shadow:4px 4px 4px 4px rgb(89, 120,  
82) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3593, 16.1660, 10.4516 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, 82) }
```

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

```
.background{ background-color: rgb(89, 120,  
82) }
```

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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