

Converting Colors

XYZ(12.2447, 16.1594, 13.2673)

Have a look what the booklet for
XYZ(12.2447, 16.1594, 13.2673)
contains.

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Color

**XYZ(12.2963, 16.2503,
13.3150)**

Conversions

Conversions Part 1

Format	Color
Hex	51795F
RGB	81, 121, 95
RGB Percent	32%, 47%, 37%
CMY	0.6823, 0.5255, 0.6274
CMYK	0.33, 0.00, 0.21, 0.53
HSL	141°, 20%, 40%
HSV	141°, 33%, 47%
XYZ	12.2963, 16.2503, 13.3150
YIQ	106.0760, -15.4940, -16.5660

Conversions

Conversions Part 2

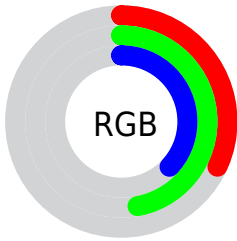
Format	Color
R_{YB}	81, 111, 121
Decimal	5339487
CIE _{Lab}	47.30, -19.97, 9.87
CIE _{LCh}	47, 22.275, 153.702
Yxy	16.2503, 0.2937, 0.3882
Android (android.graphics.Color)	4283529567 (0xFF51795F)
YUV	106.0760, -5.4605, -21.9917
Hunter-Lab	40.3117, -16.0974, 8.6346

Details

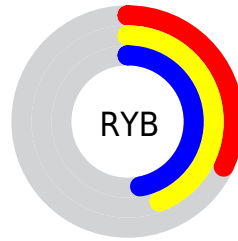
The XYZ color **12.2963, 16.2503, 13.3150** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.4820, 11.0118, 15.3256**, and the grayscale version is **13.7383, 14.4538, 15.7402**.

A 20% lighter version of the original color is **29.7626, 37.2220, 32.4040**, and **3.5314, 5.1966, 3.7226** is the 20% darker color. If you saturate the color by 10%, you get **11.0108, 15.6273, 11.4819**, and if you desaturate by 10%, it is **13.8037, 16.9844, 15.3476**.

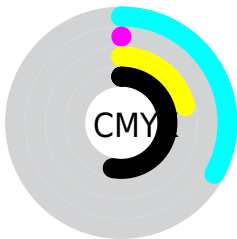
Distribution



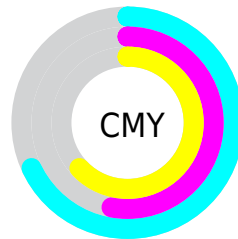
- Red (32%)
- Green (47%)
- Blue (37%)



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



- Cyan (33%)
- Magenta (0%)
- Yellow (21%)
- Black (53%)



- Cyan (68%)
- Magenta (53%)
- Yellow (63%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2963, 16.2503, 13.3150 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 12.2963, 16.2503, 13.3150 by changing the saturation by 10% instead.

■ 12.2963, 16.2503,
13.3150

■ 12.2963, 16.2503,
13.3150

200.0872,
230.8142, 224.2050

■ 7.0194, 9.7014,
7.5125

■ 29.6458, 37.0322,
32.5680

■ 3.5207, 5.2015,
3.7014

■ 42.4492, 52.0340,
46.8556

■ 1.4347, 2.3659,
1.4630

■ 58.4921, 70.6223,
64.8087

■ 0.2808, 0.8083,
0.1901

■ 78.1399, 93.1814,
86.8458

■ 0.0000, 0.0000,
0.0000

■ 101.7580,
120.0958, 113.3854

129.7116,

151.7497, 144.8461

162.3663,
188.5278, 181.6465

■ 12.2963, 16.2503,
13.3150

■ 12.2963, 16.2503,
13.3150

■ 11.0108, 15.6273,
11.4819

■ 13.8037, 16.9844,
15.3476

■ 9.9348, 15.1078,
9.8413

■ 15.5416, 17.8326,
17.5845

■ 9.0571, 14.6866,
8.3870


■ 17.5201, 18.8005,
20.0316


■ 8.3645, 14.3571,
7.1124


■ 19.7480, 19.8924,
22.6943


■ 7.8423, 14.1117,
6.0102

■ 22.2338, 21.1126,
25.5777


 7.4724, 13.9414,
5.0728

 24.9857, 22.4653,
28.6867

 7.2619, 13.8450,
4.5130

 28.0111, 23.9542,
32.0262

 31.3177, 25.5831,
35.6009

 34.9124, 27.3555,
39.4153

Harmonies

Analogous

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



13.4401, 16.2503, 10.1247



12.2963, 16.2503, 13.3150



11.9697, 16.2503, 18.4025

Triad

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



12.2963, 16.2503, 13.3150



15.6909, 16.2503, 30.8562



18.8110, 16.2503, 12.3376

Complementary

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



12.2963, 16.2503, 13.3150



13.4820, 11.0118, 15.3256

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.



19.5362, 16.2503, 17.0035



12.2963, 16.2503, 13.3150



17.6409, 16.2503, 28.3236

Square

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



12.2963, 16.2503, 13.3150



13.8294, 16.2503, 29.2916



19.0909, 16.2503, 22.9406



17.1827, 16.2503, 9.6502

Rectangle

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



12.2963, 16.2503, 13.3150



12.2342, 16.2503, 22.4157



19.0909, 16.2503, 22.9406



19.1745, 16.2503, 13.6865

Sweetspot

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



12.2967, 16.2510, 13.3154



28.7804, 32.3968, 32.6800



14.4671, 17.4369, 10.3880



6.4928, 7.3646, 7.3625



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.



12.2967, 16.2510, 13.3154



20.1592, 28.1974, 21.2076



13.2875, 16.6473, 18.5329



4.0034, 4.4710, 4.5520



7.7769, 14.8344, 4.8098



36.7280, 70.6142, 21.0035

Inverse Universe

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



13.4820, 11.0118, 15.3256



22.6414, 17.2151, 25.4098



12.5758, 10.6493, 10.5533



4.0977, 4.0548, 4.7123



9.9436, 4.9536, 8.2599



47.0177, 23.4634, 37.2188

Previews

White Background



This preview shows how the XYZ color 12.2963, 16.2503, 13.3150 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 12.2963, 16.2503, 13.3150 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 12.2963, 16.2503, 13.3150

Background



This preview shows how black text looks on a background with the XYZ color 12.2963, 16.2503, 13.3150.



This preview shows how white text looks on a background with the XYZ color 12.2963, 16.2503,

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

12.2963, 16.2503, 13.3150

Protanopia

15.1108, 16.1781, 11.9991

Deuteranopia

16.4693, 16.1962, 13.8134



Tritanopia

14.0577, 16.2552, 22.1353

Trichromacy



Original Color

12.2963, 16.2503, 13.3150

Protanomaly

13.8882, 16.0374, 12.4888

Deuteranomaly

14.6183, 16.0528, 13.6373

Tritanomaly

13.3193, 16.1260, 18.6303

Monochromacy



Original Color

12.2963, 16.2503, 13.3150

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

13.0125, 14.8696, 14.7547

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2963, 16.2503, 13.3150 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(81, 121, 95)` looks like.

```
.text, #text, p{  
    color:rgb(81, 121, 95)  
}
```

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(81, 121, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 121, 95) }
```

Border

The CSS property to change the border of an element to XYZ 12.2963, 16.2503, 13.3150 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(81, 121, 95) }
```


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

```
.border{ border-color:rgb(81, 121, 95) }
```

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

Here you see how a box with a 4 pixel rgb(81, 121, 95) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 121, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 121, 95);  
box-shadow:4px 4px 4px 4px rgb(81, 121,  
95) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2963, 16.2503, 13.3150 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 121, 95) }
```

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

```
.background{ background-color: rgb(81, 121,  
95) }
```

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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