

Converting Colors

XYZ(12.3322, 16.1654, 17.0056)

Have a look what the booklet for
XYZ(12.3322, 16.1654, 17.0056)
contains.

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Color

**XYZ(12.3453, 16.1953,
16.9433)**

Conversions

Conversions Part 1

Format	Color
Hex	49796D
RGB	73, 121, 109
RGB Percent	29%, 47%, 43%
CMY	0.7137, 0.5255, 0.5725
CMYK	0.40, 0.00, 0.10, 0.53
HSL	165°, 25%, 38%
HSV	165°, 40%, 47%
XYZ	12.3453, 16.1953, 16.9433
YIQ	105.2800, -24.7560, -13.9080

Conversions

Conversions Part 2

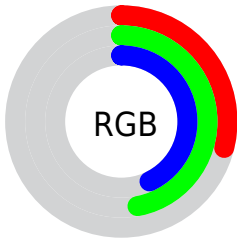
Format	Color
RYB	73, 100, 121
Decimal	4815213
CIELab	47.23, -19.33, 1.44
CIElCh	47, 19.380, 175.732
Yxy	16.1953, 0.2714, 0.3561
Android (android.graphics.Color)	4283005293 (0xFF49796D)
YUV	105.2800, 1.8340, -28.3096
Hunter-Lab	40.2434, -15.6682, 3.2080

Details

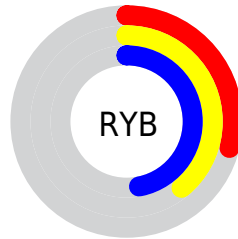
The XYZ color **12.3453, 16.1953, 16.9433** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.9079, 9.4863, 9.7983**, and the grayscale version is **13.5035, 14.2067, 15.4711**.

A 20% lighter version of the original color is **29.7934, 37.0953, 38.8475**, and **3.5402, 5.1647, 5.3677** is the 20% darker color. If you saturate the color by 10%, you get **11.3563, 15.7043, 16.0617**, and if you desaturate by 10%, it is **13.5193, 16.7818, 17.8635**.

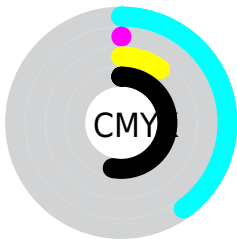
Distribution



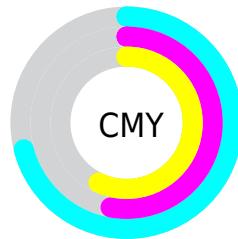
- Red (29%)
- Green (47%)
- Blue (43%)



- Red (29%)
- Yellow (39%)
- Blue (47%)



- Cyan (40%)
- Magenta (0%)
- Yellow (10%)
- Black (53%)



- Cyan (71%)
- Magenta (53%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3453, 16.1953, 16.9433 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 12.3453, 16.1953, 16.9433 by changing the saturation by 10% instead.

■ 12.3453, 16.1953,
16.9433

■ 12.3453, 16.1953,
16.9433

200.4016,
230.4914, 246.8783

■ 7.0532, 9.6625,
10.0325

■ 29.7339, 36.9369,
39.0176

■ 3.5420, 5.1757,
5.3147

■ 42.5610, 51.9145,
55.0182

■ 1.4464, 2.3507,
2.3711

■ 58.6306, 70.4758,
74.8858

■ 0.2890, 0.8004,
0.7706

■ 78.3079, 93.0051,
99.0390

■ 0.0000, 0.0000,
0.0000

■ 101.9583,
119.8870, 127.8963

129.9471,

151.5057, 161.8763

162.6398,
188.2457, 201.3974

■ 12.3453, 16.1953,
16.9433

■ 12.3453, 16.1953,
16.9433

■ 11.3563, 15.7043,
16.0617

■ 13.5193, 16.7818,
17.8635

■ 10.5404, 15.3016,
15.2168

■ 14.8864, 17.4668,
18.8220

■ 9.8865, 14.9817,
14.4082

■ 16.4561, 18.2555,
19.8198

■ 9.3817, 14.7381,
13.6350

■ 18.2368, 19.1523,
20.8576

■ 9.0111, 14.5630,
12.8961

■ 20.2362, 20.1613,
21.9361

■ 8.7245, 14.4306,
12.1889

■ 22.4619, 21.2862,
23.0558

■ 8.7151, 14.4263,
12.1660

■ 24.9211, 22.5308,
24.2173

■ 27.6204, 23.8985,
25.4213

■ 30.5665, 25.3927,
26.6682

Harmonies

Analogous

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



12.8358, 16.1953, 12.8511



12.3453, 16.1953, 16.9433



12.6205, 16.1953, 22.0401

Triad

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



12.3453, 16.1953, 16.9433



16.8633, 16.1953, 27.5345



17.3171, 16.1953, 10.9480

Complementary

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



12.3453, 16.1953, 16.9433



11.9079, 9.4863, 9.7983

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.



18.5447, 16.1953, 13.8580



12.3453, 16.1953, 16.9433



18.2694, 16.1953, 23.4767

Square

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



12.3453, 16.1953, 16.9433



15.1501, 16.1953, 28.7727



18.9054, 16.1953, 18.3431



15.6388, 16.1953, 9.8201

Rectangle

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



12.3453, 16.1953, 16.9433



13.2130, 16.1953, 25.2617



18.9054, 16.1953, 18.3431



17.8008, 16.1953, 11.7206

Sweetspot

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



12.3458, 16.1960, 16.9437



28.6920, 32.2996, 35.0138



11.8598, 16.1254, 8.7910



6.4967, 7.3533, 7.9661



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.



12.3458, 16.1960, 16.9437



20.4115, 28.1590, 28.8339



11.7537, 13.9062, 20.1546



4.0663, 4.4961, 4.8829



9.3346, 15.4575, 13.0130



44.1732, 73.5923, 60.2094

Inverse Universe

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



11.9079, 9.4863, 9.7983



19.5116, 14.2891, 14.0894



12.2741, 10.9181, 7.7641



4.0356, 4.0300, 4.3853



8.7007, 4.4564, 1.7146



41.2086, 21.1398, 6.6285

Previews

White Background



This preview shows how the XYZ color 12.3453, 16.1953, 16.9433 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 12.3453, 16.1953, 16.9433 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

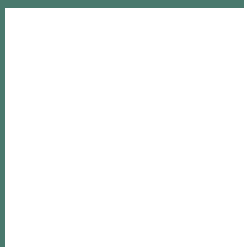
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3453, 16.1953, 16.9433

Background



This preview shows how black text looks on a background with the XYZ color 12.3453, 16.1953, 16.9433.



This preview shows how white text looks on a background with the XYZ color 12.3453, 16.1953,

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

12.3453, 16.1953, 16.9433

Protanopia

15.2534, 16.0132, 15.3836

Deuteranopia

16.3132, 16.0326, 17.5640



Tritanopia

13.5166, 16.1351, 22.8241

Trichromacy



Original Color

12.3453, 16.1953, 16.9433

Protanomaly

13.9878, 16.0114, 15.9889

Deuteranomaly

14.4833, 15.9010, 17.3448

Tritanomaly

13.0285, 16.1106, 20.5121

Monochromacy



Original Color

12.3453, 16.1953, 16.9433

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.8002, 14.7366, 15.8055

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3453, 16.1953, 16.9433 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(73, 121, 109)` looks like.

```
.text, #text, p{  
    color:rgb(73, 121, 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(73, 121, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 121, 109) }
```

Border

The CSS property to change the border of an element to XYZ 12.3453, 16.1953, 16.9433 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(73, 121, 109) }
```


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

```
.border{ border-color:rgb(73, 121, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 121, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 121, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 121, 109);  
box-shadow:4px 4px 4px 4px rgb(73, 121,  
109) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3453, 16.1953, 16.9433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 121, 109) }
```

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

```
.background{ background-color: rgb(73, 121,  
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](#).

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