

Converting Colors

XYZ(12.4547, 16.7141, 19.5472)

Have a look what the booklet for
XYZ(12.4547, 16.7141, 19.5472)
contains.

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Color

**XYZ(12.4684, 16.7564,
19.4068)**

Conversions

Conversions Part 1

Format	Color
Hex	3F7C75
RGB	63, 124, 117
RGB Percent	25%, 49%, 46%
CMY	0.7529, 0.5137, 0.5412
CMYK	0.49, 0.00, 0.06, 0.51
HSL	173°, 33%, 37%
HSV	173°, 49%, 49%
XYZ	12.4684, 16.7564, 19.4068
YIQ	104.9630, -34.1090, -15.1090

Conversions

Conversions Part 2

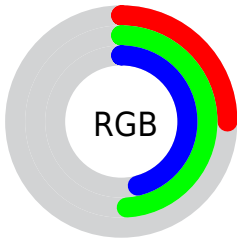
Format	Color
RYB	63, 95, 124
Decimal	4160629
CIELab	47.95, -21.60, -2.29
CIELCh	48, 21.720, 186.059
Yxy	16.7564, 0.2564, 0.3446
Android (android.graphics.Color)	4282350709 (0xFF3F7C75)
YUV	104.9630, 5.9342, -36.8016
Hunter-Lab	40.9346, -17.2656, 0.5452

Details

The XYZ color **12.4684, 16.7564, 19.4068** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.1957, 8.2827, 6.8035**, and the grayscale version is **13.4087, 14.1070, 15.3625**.

A 20% lighter version of the original color is **29.9538, 37.9537, 43.2832**, and **3.6153, 5.4747, 6.4964** is the 20% darker color. If you saturate the color by 10%, you get **11.6811, 16.3605, 18.9368**, and if you desaturate by 10%, it is **13.4364, 17.2461, 19.8927**.

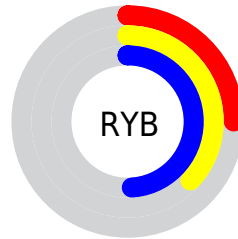
Distribution



Red (25%)

Green (49%)

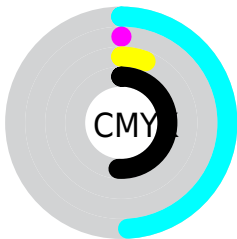
Blue (46%)



Red (25%)

Yellow (37%)

Blue (49%)

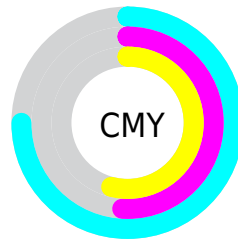


Cyan (49%)

Magenta (0%)

Yellow (6%)

Black (51%)



Cyan (75%)

Magenta (51%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4684, 16.7564, 19.4068 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 12.4684, 16.7564, 19.4068 by changing the saturation by 10% instead.

■ 12.4684, 16.7564,
19.4068

■ 12.4684, 16.7564,
19.4068

201.1893,
233.7646, 261.1826

■ 7.1380, 10.0610,
11.7848

■ 29.9549, 37.9065,
43.2662

■ 3.5956, 5.4394,
6.4766

■ 42.8417, 53.1299,
60.3407

■ 1.4760, 2.5073,
3.0635

■ 58.9779, 71.9648,
81.4031

■ 0.3094, 0.8803,
1.1272

■ 78.7291, 94.7955,
106.8719

■ 0.0000, 0.0000,
0.0000

■ 102.4604,
122.0064, 137.1657

130.5373,

153.9820, 172.7031

163.3252,
191.1066, 213.9025

■ 12.4684, 16.7564,
19.4068

■ 12.4684, 16.7564,
19.4068

■ 11.6811, 16.3605,
18.9368

■ 13.4364, 17.2461,
19.8927

■ 11.0608, 16.0502,
18.4808

■ 14.5946, 17.8333,
20.3937

■ 10.5944, 15.8191,
18.0386

■ 15.9537, 18.5239,
20.9109

■ 10.2661, 15.6590,
17.6095

■ 17.5230, 19.3227,
21.4447

■ 10.0287, 15.5456,
17.1911

■ 19.3113, 20.2343,
21.9954

■ 10.0099, 15.5366,
17.1576

■ 21.3270, 21.2629,
22.5636

■ 23.5778, 22.4126,
23.1496

■ 26.0714, 23.6873,
23.7538

■ 28.8148, 25.0906,
24.3765

Harmonies

Analogous

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



12.7274, 16.7564, 14.2100



12.4684, 16.7564, 19.4068



13.0727, 16.7564, 25.3557

Triad

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



12.4684, 16.7564, 19.4068



18.2468, 16.7564, 28.4229



17.5035, 16.7564, 10.0582

Complementary

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



12.4684, 16.7564, 19.4068



11.1957, 8.2827, 6.8035

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.



19.1679, 16.7564, 12.6058



12.4684, 16.7564, 19.4068



19.6211, 16.7564, 22.9792

Square

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



12.4684, 16.7564, 19.4068



16.3272, 16.7564, 31.2040



19.9712, 16.7564, 17.1303



15.5324, 16.7564, 9.4862

Rectangle

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



12.4684, 16.7564, 19.4068



13.9156, 16.7564, 28.7312



19.9712, 16.7564, 17.1303



18.1223, 16.7564, 10.6821

Sweetspot

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



12.4689, 16.7571, 19.4072



29.0887, 33.1128, 37.1538



10.6395, 16.0813, 7.2461



6.7407, 7.7425, 8.7120



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.4689, 16.7571, 19.4072



20.4082, 28.7158, 33.2248



10.3050, 11.7456, 20.7935



4.0882, 4.5049, 4.9983



10.1750, 15.7937, 17.4385



48.3354, 75.2572, 82.1272

Inverse Universe

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



11.1957, 8.2827, 6.8035



17.8985, 11.9538, 8.3380



12.5684, 11.3614, 6.2334



4.0153, 4.0218, 4.2782



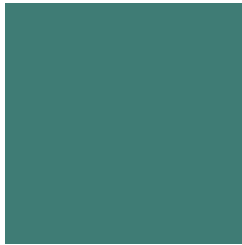
8.5317, 4.3889, 0.8252



40.5295, 20.8681, 3.0526

Previews

White Background



This preview shows how the XYZ color 12.4684, 16.7564, 19.4068 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 12.4684, 16.7564, 19.4068 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

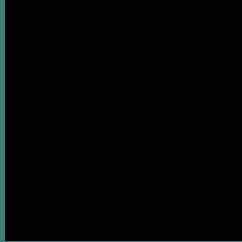
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4684, 16.7564, 19.4068

Background



This preview shows how black text looks on a background with the XYZ color 12.4684, 16.7564, 19.4068.



This preview shows how white text looks on a background with the XYZ color 12.4684, 16.7564,

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

12.4684, 16.7564, 19.4068

Protanopia

15.9768, 16.6710, 17.4147

Deuteranopia

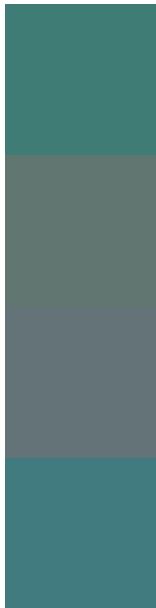
16.8513, 16.5729, 20.0800



Tritanopia

13.5083, 16.8140, 24.3633

Trichromacy



Original Color

12.4684, 16.7564, 19.4068

Protanomaly

14.2717, 16.4562, 18.0470

Deuteranomaly

14.7160, 16.3027, 19.8239

Tritanomaly

13.1605, 16.8565, 22.6387

Monochromacy



Original Color

12.4684, 16.7564, 19.4068

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.7709, 14.8661, 16.6643

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4684, 16.7564, 19.4068 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, 124, 117)` looks like.

```
.text, #text, p{  
    color:rgb(63, 124, 117)  
}
```

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, 124, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 124, 117) }
```

Border

The CSS property to change the border of an element to XYZ 12.4684, 16.7564, 19.4068 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, 124, 117) }
```


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

```
.border{ border-color:rgb(63, 124, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 124, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 124, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 124, 117);  
box-shadow:4px 4px 4px 4px rgb(63, 124,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4684, 16.7564, 19.4068 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 124, 117) }
```

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

```
.background{ background-color: rgb(63, 124,  
117) }
```

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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