

Converting Colors

XYZ(12.9447, 16.6667, 17.8640)

Have a look what the booklet for
XYZ(12.9447, 16.6667, 17.8640)
contains.

XYZ(12.9447, 16.6667, 17.8640)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9447, 16.6667,
17.8640)**

Conversions

Conversions Part 1

Format	Color
Hex	4D7A70
RGB	77, 122, 112
RGB Percent	30%, 48%, 44%
CMY	0.6980, 0.5216, 0.5608
CMYK	0.37, 0.00, 0.08, 0.52
HSL	167°, 23%, 39%
HSV	167°, 37%, 48%
XYZ	12.9447, 16.6667, 17.8640
YIQ	107.4050, -23.6100, -12.6500

Conversions

Conversions Part 2

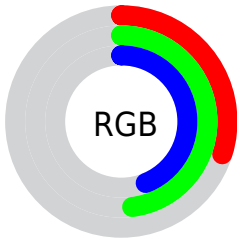
Format	Color
R_{YB}	77, 102, 122
Decimal	5077616
CIE _{Lab}	47.84, -17.91, 0.58
CIE _{LCh}	48, 17.921, 178.160
Yxy	16.6667, 0.2727, 0.3511
Android (android.graphics.Color)	4283267696 (0xFF4D7A70)
YUV	107.4050, 2.2653, -26.6652
Hunter-Lab	40.8249, -14.8450, 2.6335

Details

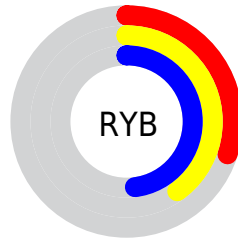
The XYZ color **12.9447, 16.6667, 17.8640** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.4007, 10.1338, 10.3198**, and the grayscale version is **14.0866, 14.8202, 16.1392**.

A 20% lighter version of the original color is **30.9329, 37.9295, 40.8127**, and **3.7868, 5.3821, 5.6898** is the 20% darker color. If you saturate the color by 10%, you get **11.9026, 16.1471, 17.0392**, and if you desaturate by 10%, it is **14.1770, 17.2847, 18.7221**.

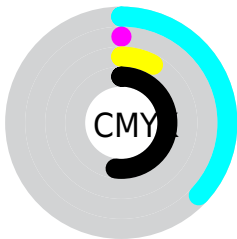
Distribution



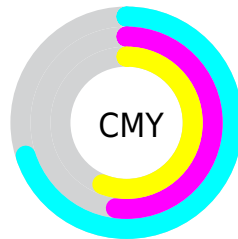
- Red (30%)
- Green (48%)
- Blue (44%)



- Red (30%)
- Yellow (40%)
- Blue (48%)



- Cyan (37%)
- Magenta (0%)
- Yellow (8%)
- Black (52%)



- Cyan (70%)
- Magenta (52%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9447, 16.6667, 17.8640 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 12.9447, 16.6667, 17.8640 by changing the saturation by 10% instead.

■ 12.9447, 16.6667,
17.8640

■ 12.9447, 16.6667,
17.8640

204.2077,
233.2443, 252.3137

■ 7.4672, 9.9971,
10.6840

■ 30.8066, 37.7518,
40.6163

■ 3.8049, 5.3971,
5.7433

■ 43.9216, 52.9362,
57.0255

■ 1.5924, 2.4821,
2.6233

■ 60.3133, 71.7276,
77.3483

■ 0.3874, 0.8676,
0.9045

■ 80.3469, 94.5104,
102.0032

■ 0.0000, 0.0000,
0.0000

■ 104.3878,
121.6692, 131.4086

132.8013,

153.5881, 165.9831

165.9528,
190.6517, 206.1453

■ 12.9447, 16.6667,
17.8640

■ 12.9447, 16.6667,
17.8640

■ 11.9026, 16.1471,
17.0392

■ 14.1770, 17.2847,
18.7221

■ 11.0388, 15.7185,
16.2460

■ 15.6076, 18.0040,
19.6131

■ 10.3425, 15.3756,
15.4839

■ 17.2460, 18.8298,
20.5380

■ 9.8008, 15.1120,
14.7522

■ 19.1004, 19.7665,
21.4973

■ 9.3991, 14.9201,
14.0499

■ 21.1789, 20.8181,
22.4916

■ 9.1064, 14.7838,
13.3754

■ 23.4889, 21.9886,
23.5215

■ 9.0203, 14.7439,
13.1702

■ 26.0375, 23.2815,
24.5875

■ 28.8317, 24.7004,
25.6901

■ 31.8780, 26.2488,
26.8298

Harmonies

Analogous

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



13.3546, 16.6667, 13.8611



12.9447, 16.6667, 17.8640



13.2661, 16.6667, 22.6601

Triad

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



12.9447, 16.6667, 17.8640



17.3472, 16.6667, 27.1376



17.5308, 16.6667, 11.6105

Complementary

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



12.9447, 16.6667, 17.8640



12.4007, 10.1338, 10.3198

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.



18.7296, 16.6667, 14.2772



12.9447, 16.6667, 17.8640



18.6187, 16.6667, 23.2367

Square

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



12.9447, 16.6667, 17.8640



15.7420, 16.6667, 28.5267



19.1404, 16.6667, 18.4334



15.9408, 16.6667, 10.6512

Rectangle

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



12.9447, 16.6667, 17.8640



13.8650, 16.6667, 25.5844



19.1404, 16.6667, 18.4334



17.9968, 16.6667, 12.3121

Sweetspot

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



12.9452, 16.6674, 17.8644



29.0313, 32.4660, 35.4110



12.2769, 16.5060, 9.5603



6.5691, 7.3886, 8.0579



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.



12.9452, 16.6674, 17.8644



21.2500, 28.5611, 30.2365



12.1498, 14.1353, 20.5012



4.0708, 4.4979, 4.9064



9.4934, 15.5210, 13.8489



44.9549, 73.9050, 64.3257

Inverse Universe

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



12.4007, 10.1338, 10.3198



20.1526, 15.3464, 14.9957



12.9385, 11.8186, 8.6206



4.0314, 4.0283, 4.3631



8.6570, 4.4390, 1.4847



41.0245, 21.0661, 5.6589

Previews

White Background



This preview shows how the XYZ color 12.9447, 16.6667, 17.8640 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 12.9447, 16.6667, 17.8640 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

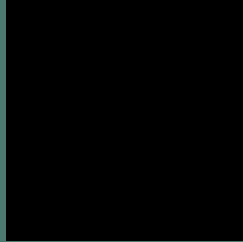
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9447, 16.6667, 17.8640

Background



This preview shows how black text looks on a background with the XYZ color 12.9447, 16.6667, 17.8640.



This preview shows how white text looks on a background with the XYZ color 12.9447, 16.6667,

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

12.9447, 16.6667, 17.8640

Protanopia

15.8951, 16.6537, 16.2866

Deuteranopia

16.8388, 16.6006, 18.5364



Tritanopia

13.9526, 16.5280, 23.2237

Trichromacy



Original Color

12.9447, 16.6667, 17.8640

Protanomaly

14.4852, 16.4197, 16.8739

Deuteranomaly

14.9984, 16.3137, 18.2779

Tritanomaly

13.5999, 16.5685, 21.2201

Monochromacy



Original Color

12.9447, 16.6667, 17.8640

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.3784, 15.1793, 16.6928

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9447, 16.6667, 17.8640 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(77, 122, 112)` looks like.

```
.text, #text, p{  
    color:rgb(77, 122, 112)  
}
```

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(77, 122, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 122, 112) }
```

Border

The CSS property to change the border of an element to XYZ 12.9447, 16.6667, 17.8640 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(77, 122, 112) }
```


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

```
.border{ border-color:rgb(77, 122, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 122, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 122, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 122, 112);  
box-shadow:4px 4px 4px 4px rgb(77, 122,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9447, 16.6667, 17.8640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 122, 112) }
```

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

```
.background{ background-color: rgb(77, 122,  
112) }
```

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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