

Converting Colors

XYZ(12.3835, 20.3341, 17.3751)

Have a look what the booklet for
XYZ(12.3835, 20.3341, 17.3751)
contains.

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Color

**XYZ(12.4674, 20.4739,
17.4821)**

Conversions

Conversions Part 1

Format	Color
Hex	078E6C
RGB	7, 142, 108
RGB Percent	3%, 56%, 42%
CMY	0.9725, 0.4431, 0.5765
CMYK	0.95, 0.00, 0.24, 0.44
HSL	165°, 91%, 29%
HSV	165°, 95%, 56%
XYZ	12.4674, 20.4739, 17.4821
YIQ	97.7590, -69.5460, -39.1940

Conversions

Conversions Part 2

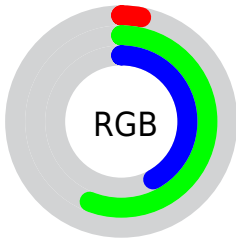
Format	Color
RYB	7, 84, 142
Decimal	495212
CIELab	52.37, -40.65, 9.17
CIElCh	52, 41.668, 167.280
Yxy	20.4739, 0.2473, 0.4060
Android (android.graphics.Color)	4278685292 (0xFF078E6C)
YUV	97.7590, 5.0488, -79.5956
Hunter-Lab	45.2481, -30.0013, 8.7663

Details

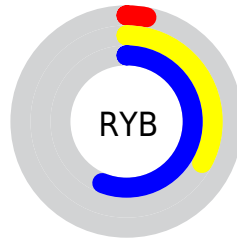
The XYZ color **12.4674, 20.4739, 17.4821** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **11.6323, 6.0634, 2.6562**, and the grayscale version is **11.5509, 12.1524, 13.2340**.

A 20% lighter version of the original color is **29.9706, 44.3670, 39.7850**, and **4.5834, 7.8191, 5.6825** is the 20% darker color. If you saturate the color by 10%, you get **12.2871, 20.3922, 16.9884**, and if you desaturate by 10%, it is **12.8883, 20.6689, 18.5165**.

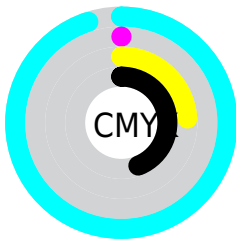
Distribution



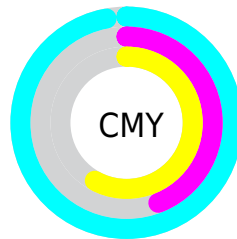
- Red (3%)
- Green (56%)
- Blue (42%)



- Red (3%)
- Yellow (33%)
- Blue (56%)



- Cyan (95%)
- Magenta (0%)
- Yellow (24%)
- Black (44%)





- Cyan (97%)
- Magenta (44%)
- Yellow (58%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4674, 20.4739, 17.4821 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 12.4674, 20.4739, 17.4821 by changing the saturation by 10% instead.

 12.4674, 20.4739,
17.4821


 12.4674, 20.4739,
17.4821


201.1829,
254.4692, 250.0728


 7.1373, 12.7400,
10.4132


 29.9531, 44.2103,
39.9548


 3.5952, 7.2497,
5.5646


 42.8394, 60.9816,
56.1957


 1.4758, 3.6188,
2.5177

 58.9751, 81.5341,
76.3310

 0.3093, 1.4627,
0.8495

 78.7257, 106.2523,
100.7793

 0.0000, 0.2622,
0.0000

 102.4563,
135.5205, 129.9590

 0.0000, 0.0000,
0.0000

 130.5325,

169.7231, 164.2889

163.3196,
209.2445, 204.1873

■ 12.4674, 20.4739,
17.4821

■ 12.4674, 20.4739,
17.4821

■ 12.2871, 20.3922,
16.9884

■ 12.8883, 20.6689,
18.5165

■ 13.4840, 20.9527,
19.5999

■ 14.2833, 21.3405,
20.7346

■ 15.3075, 21.8432,
21.9220

■ 16.5747, 22.4703,
23.1633

■ 18.1014, 23.2303,
24.4599

■ 19.9027, 24.1307,
25.8129

■ 21.9921, 25.1789,
27.2232

■ 24.3828, 26.3812,
28.6921

Harmonies

Analogous

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



14.0036, 20.4739, 9.7933



12.4674, 20.4739, 17.4821



12.5942, 20.4739, 30.0781

Triad

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



12.4674, 20.4739, 17.4821



22.0162, 20.4739, 53.3421



25.6141, 20.4739, 9.0445

Complementary

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



12.4674, 20.4739, 17.4821



11.6323, 6.0634, 2.6562

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.



28.4538, 20.4739, 15.9818



12.4674, 20.4739, 17.4821



26.1760, 20.4739, 42.4838

Square

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



12.4674, 20.4739, 17.4821



17.6984, 20.4739, 54.2179



28.6734, 20.4739, 27.9133



21.3345, 20.4739, 6.2699

Rectangle

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



12.4674, 20.4739, 17.4821



13.6031, 20.4739, 39.8966



28.6734, 20.4739, 27.9133



26.7944, 20.4739, 10.8204

Sweetspot

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



12.4680, 20.4747, 17.4826



33.5917, 41.7985, 44.4215



10.7084, 19.8759, 3.4734



7.2422, 9.2056, 9.7227



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.4680, 20.4747, 17.4826



21.5984, 35.9314, 29.5979



10.6009, 13.2593, 27.5927



5.5030, 6.0934, 6.6147



11.0392, 18.3116, 15.2926



0.1144, 0.1786, 0.1928

Inverse Universe

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



11.6323, 6.0634, 2.6562



20.1694, 10.3402, 3.5429



11.9037, 7.1854, 0.9608



5.4612, 5.4450, 5.9264



10.3052, 5.2791, 1.9923



0.1063, 0.0536, 0.0601

Previews

White Background



This preview shows how the XYZ color 12.4674, 20.4739, 17.4821 looks on a white 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

Black Background



This preview shows how the XYZ color 12.4674, 20.4739, 17.4821 looks on a black 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

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

XYZ 12.4674, 20.4739, 17.4821

Background



This preview shows how black text looks on a background with the XYZ color 12.4674, 20.4739, 17.4821.



This preview shows how white text looks on a background with the XYZ color 12.4674, 20.4739,

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

12.4674, 20.4739, 17.4821

Protanopia

18.9755, 20.2217, 14.7074

Deuteranopia

20.5123, 20.2006, 18.4408



Tritanopia

15.3731, 20.5873, 31.1805

Trichromacy



Original Color

12.4674, 20.4739, 17.4821

Protanomaly

14.4451, 19.2181, 15.5185

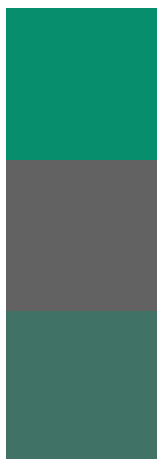
Deuteranomaly

15.0020, 18.8614, 17.8888

Tritanomaly

14.0313, 20.4500, 25.3980

Monochromacy



Original Color

12.4674, 20.4739, 17.4821

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

10.5956, 14.1178, 14.7369

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4674, 20.4739, 17.4821 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(7, 142, 108)` looks like.

```
.text, #text, p{  
    color:rgb(7, 142, 108)  
}
```

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(7, 142, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(7, 142, 108) }
```

Border

The CSS property to change the border of an element to XYZ 12.4674, 20.4739, 17.4821 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(7, 142, 108) }
```


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

```
.border{ border-color:rgb(7, 142, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(7, 142, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(7, 142, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(7, 142, 108);  
box-shadow:4px 4px 4px 4px rgb(7, 142,  
108) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4674, 20.4739, 17.4821 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(7, 142, 108) }
```

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

```
.background{ background-color: rgb(7, 142,  
108) }
```

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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