

Converting Colors

XYZ(12.5175, 19.3615, 20.9489)

Have a look what the booklet for
XYZ(12.5175, 19.3615, 20.9489)
contains.

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Color

**XYZ(12.4874, 19.3255,
20.8413)**

Conversions

Conversions Part 1

Format	Color
Hex	0C8978
RGB	12, 137, 120
RGB Percent	5%, 54%, 47%
CMY	0.9529, 0.4627, 0.5294
CMYK	0.91, 0.00, 0.12, 0.46
HSL	172°, 84%, 29%
HSV	172°, 91%, 54%
XYZ	12.4874, 19.3255, 20.8413
YIQ	97.6870, -69.0430, -31.7870

Conversions

Conversions Part 2

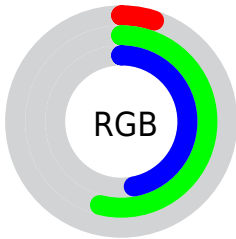
Format	Color
RYB	12, 79, 137
Decimal	821624
CIELab	51.07, -34.89, 0.37
CIELCh	51, 34.895, 179.394
Yxy	19.3255, 0.2372, 0.3670
Android (android.graphics.Color)	4279011704 (0xFF0C8978)
YUV	97.6870, 11.0003, -75.1475
Hunter-Lab	43.9608, -26.2271, 2.6638

Details

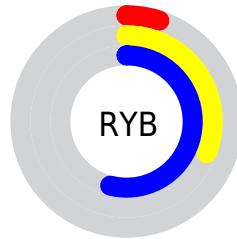
The XYZ color **12.4874, 19.3255, 20.8413** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.6704, 5.6705, 1.6953**, and the grayscale version is **11.5187, 12.1185, 13.1971**.

A 20% lighter version of the original color is **29.9149, 42.2186, 45.6020**, and **4.4975, 7.1235, 7.2688** is the 20% darker color. If you saturate the color by 10%, you get **12.2378, 19.2087, 20.3168**, and if you desaturate by 10%, it is **12.8691, 19.5095, 21.4558**.

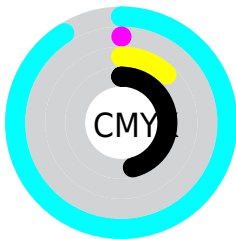
Distribution



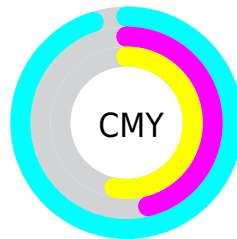
- Red (5%)
- Green (54%)
- Blue (47%)



- Red (5%)
- Yellow (31%)
- Blue (54%)



- Cyan (91%)
- Magenta (0%)
- Yellow (12%)
- Black (46%)



- Cyan (95%)
- Magenta (46%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4874, 19.3255, 20.8413 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 12.4874, 19.3255, 20.8413 by changing the saturation by 10% instead.

■ 12.4874, 19.3255,
20.8413

■ 12.4874, 19.3255,
20.8413

201.3105,
248.2399, 269.1872

■ 7.1511, 11.9057,
12.8179

■ 29.9890, 42.2834,
45.7006

■ 3.6039, 6.6795,
7.1740

■ 42.8849, 58.5903,
63.3737

■ 1.4806, 3.2625,
3.4911

■ 59.0315, 78.6284,
85.1003

■ 0.3126, 1.2703,
1.3505

■ 78.7940, 102.7820,
111.2992

■ 0.0000, 0.1180,
0.1027

■ 102.5378,
131.4355, 142.3888

■ 0.0000, 0.0000,
0.0000

■ 130.6282,

164.9734, 178.7876

163.4307,
203.7801, 220.9142

■ 12.4874, 19.3255,
20.8413

■ 12.4874, 19.3255,
20.8413

■ 12.2378, 19.2087,
20.3168

■ 12.8691, 19.5095,
21.4558

■ 13.4192, 19.7797,
22.0893

■ 14.1596, 20.1477,
22.7433

■ 15.1083, 20.6228,
23.4188

■ 16.2813, 21.2132,
24.1165

■ 17.6930, 21.9265,
24.8371

■ 19.3565, 22.7693,
25.5815

■ 21.2841, 23.7480,
26.3501

■ 23.4871, 24.8684,
27.1436

Harmonies

Analogous

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



13.2174, 19.3255, 12.7569



12.4874, 19.3255, 20.8413



13.1609, 19.3255, 31.8456

Triad

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



12.4874, 19.3255, 20.8413



21.8304, 19.3255, 42.3868



21.9674, 19.3255, 8.5358

Complementary

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



12.4874, 19.3255, 20.8413



10.6704, 5.6705, 1.6953

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.



24.7947, 19.3255, 13.0086



12.4874, 19.3255, 20.8413



24.7089, 19.3255, 32.3079

Square

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



12.4874, 19.3255, 20.8413



18.2980, 19.3255, 46.4181



25.8550, 19.3255, 21.2444



18.4388, 19.3255, 7.1630

Rectangle

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



12.4874, 19.3255, 20.8413



14.3702, 19.3255, 39.0720



25.8550, 19.3255, 21.2444



23.0468, 19.3255, 9.6397

Sweetspot

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



12.4880, 19.3262, 20.8418



32.7139, 39.7865, 44.9572



9.5703, 18.2061, 3.3579



7.1529, 8.8304, 9.9981



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.4880, 19.3262, 20.8418



21.8712, 34.3806, 36.1517



8.6041, 9.7580, 25.0977



5.1441, 5.6771, 6.2797



11.4023, 17.8935, 18.9412



0.0795, 0.1204, 0.1456

Inverse Universe

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



10.6704, 5.6705, 1.6953



18.6428, 9.5914, 1.7482



11.7858, 8.1501, 1.3001



5.0588, 5.0590, 5.3981



9.7193, 4.9978, 1.0262



0.0676, 0.0344, 0.0230

Previews

White Background



This preview shows how the XYZ color 12.4874, 19.3255, 20.8413 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 12.4874, 19.3255, 20.8413 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

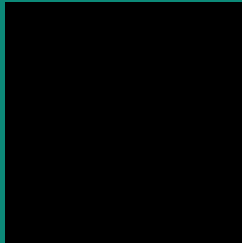
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.4874, 19.3255, 20.8413

Background



This preview shows how black text looks on a background with the XYZ color 12.4874, 19.3255, 20.8413.

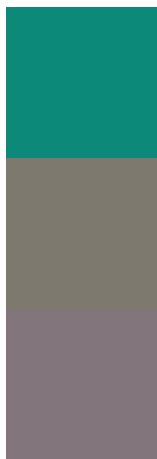


This preview shows how white text looks on a background with the XYZ color 12.4874, 19.3255,

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

12.4874, 19.3255, 20.8413

Protanopia

18.1641, 19.1824, 17.7842

Deuteranopia

19.3595, 19.0031, 21.7164



Tritanopia

14.3585, 19.4759, 29.3880

Trichromacy



Original Color

12.4874, 19.3255, 20.8413

Protanomaly

14.2828, 18.2785, 18.6949

Deuteranomaly

14.8073, 17.9201, 21.4174

Tritanomaly

13.5438, 19.3384, 25.9405

Monochromacy



Original Color

12.4874, 19.3255, 20.8413

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

10.7104, 13.8222, 15.7391

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4874, 19.3255, 20.8413 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(12, 137, 120)` looks like.

```
.text, #text, p{  
    color:rgb(12, 137, 120)  
}
```

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(12, 137, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 137, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.4874, 19.3255, 20.8413 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(12, 137, 120) }
```


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

```
.border{ border-color:rgb(12, 137, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 137, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 137, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 137, 120);  
box-shadow:4px 4px 4px 4px rgb(12, 137,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4874, 19.3255, 20.8413 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 137, 120) }
```

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

```
.background{ background-color: rgb(12, 137,  
120) }
```

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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