

Converting Colors

XYZ(12.3533, 19.7400, 19.6451)

Have a look what the booklet for
XYZ(12.3533, 19.7400, 19.6451)
contains.

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Color

**XYZ(12.3850, 19.7262,
19.6778)**

Conversions

Conversions Part 1

Format	Color
Hex	008B74
RGB	0, 139, 116
RGB Percent	0%, 55%, 45%
CMY	1.0000, 0.4549, 0.5451
CMYK	1.00, 0.00, 0.17, 0.45
HSL	170°, 100%, 27%
HSV	170°, 100%, 55%
XYZ	12.3850, 19.7262, 19.6778
YIQ	94.8170, -75.4610, -36.6210

Conversions

Conversions Part 2

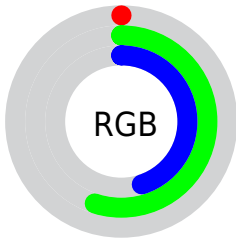
Format	Color
RYB	0, 76, 139
Decimal	35700
CIELab	51.53, -37.57, 3.35
CIElCh	52, 37.723, 174.907
Yxy	19.7262, 0.2391, 0.3809
Android (android.graphics.Color)	4278225780 (0xFF008B74)
YUV	94.8170, 10.4432, -83.1545
Hunter-Lab	44.4142, -27.9497, 4.8214

Details

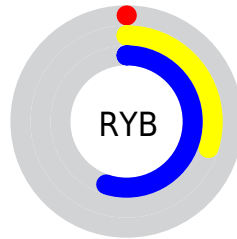
The XYZ color **12.3850, 19.7262, 19.6778** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.8028, 5.5513, 1.3134**, and the grayscale version is **10.8233, 11.3870, 12.4004**.

A 20% lighter version of the original color is **29.7051, 42.8061, 43.7426**, and **4.5331, 7.3968, 6.6576** is the 20% darker color. If you saturate the color by 10%, you get **12.3853, 19.7268, 19.6776**, and if you desaturate by 10%, it is **12.7007, 19.8737, 20.4003**.

Distribution



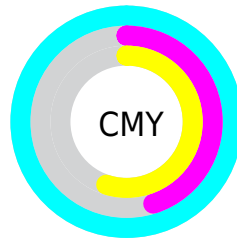
- Red (0%)
- Green (55%)
- Blue (45%)



- Red (0%)
- Yellow (30%)
- Blue (55%)



- Cyan (100%)
- Magenta (0%)
- Yellow (17%)
- Black (45%)



- Cyan (100%)
- Magenta (45%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3850, 19.7262, 19.6778 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 12.3850, 19.7262, 19.6778 by changing the saturation by 10% instead.

■ 12.3850, 19.7262,
19.6778

■ 12.3850, 19.7262,
19.6778

200.6560,
250.4290, 262.7118

■ 7.0805, 12.1962,
11.9793

■ 29.8052, 42.9577,
43.7282

■ 3.5593, 6.8774,
6.6072

■ 42.6516, 59.4279,
60.9171

■ 1.4560, 3.3856,
3.1430

■ 58.7427, 79.6470,
82.1067

■ 0.2956, 1.3362,
1.1681

■ 78.4439, 103.9993,
107.7153

■ 0.0000, 0.1690,
0.0000

■ 102.1204,
132.8693, 138.1616

■ 0.0000, 0.0000,
0.0000

■ 130.1377,

166.6413, 173.8641

162.8611,
205.6997, 215.2413

■ 12.3850, 19.7262,
19.6778

■ 12.3850, 19.7262,
19.6778

■ 12.3853, 19.7268,
19.6776

■ 12.7007, 19.8737,
20.4003

■ 13.1335, 20.0809,
21.1452

■ 13.7451, 20.3797,
21.9160

■ 14.5569, 20.7814,
22.7139

■ 15.5874, 21.2954,
23.5398

■ 16.8529, 21.9302,
24.3946

■ 18.3681, 22.6933,
25.2790

■ 20.1467, 23.5918,
26.1940

■ 22.2012, 24.6321,
27.1401

Harmonies

Analogous

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



13.3945, 19.7262, 11.5726



12.3850, 19.7262, 19.6778



12.8840, 19.7262, 31.5255

Triad

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



12.3850, 19.7262, 19.6778



21.9899, 19.7262, 46.5248



23.2603, 19.7262, 8.5244

Complementary

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



12.3850, 19.7262, 19.6778



10.8028, 5.5513, 1.3134

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.



26.1688, 19.7262, 13.8311



12.3850, 19.7262, 19.6778



25.3689, 19.7262, 35.8561

Square

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



12.3850, 19.7262, 19.6778



18.1094, 19.7262, 49.7075



26.9881, 19.7262, 23.3858



19.4038, 19.7262, 6.6724

Rectangle

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



12.3850, 19.7262, 19.6778



14.0454, 19.7262, 39.8458



26.9881, 19.7262, 23.3858



24.4008, 19.7262, 9.8539

Sweetspot

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



12.3856, 19.7270, 19.6783



32.6993, 40.5407, 45.1624



9.5904, 18.6502, 3.0947



7.2919, 9.2192, 10.2693



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.



12.3856, 19.7270, 19.6783



22.1272, 35.3053, 34.9643



8.5462, 9.6355, 25.8364



5.1379, 5.6746, 6.2472



11.1832, 17.8059, 17.7874



0.0787, 0.1200, 0.1412

Inverse Universe

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



10.8028, 5.5513, 1.3134



19.3016, 9.9233, 2.1238



11.6383, 7.4700, 0.8288



5.0645, 5.0612, 5.4279



9.7541, 5.0118, 1.2095



0.0685, 0.0348, 0.0273

Previews

White Background



This preview shows how the XYZ color 12.3850, 19.7262, 19.6778 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 12.3850, 19.7262, 19.6778 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

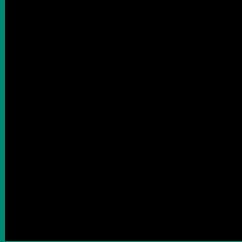
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3850, 19.7262, 19.6778

Background



This preview shows how black text looks on a background with the XYZ color 12.3850, 19.7262, 19.6778.



This preview shows how white text looks on a background with the XYZ color 12.3850, 19.7262,

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

12.3850, 19.7262, 19.6778

Protanopia

18.5155, 19.5698, 16.7114

Deuteranopia

19.9213, 19.4882, 20.8008



Tritanopia

14.7274, 19.8544, 30.2502

Trichromacy



Original Color

12.3850, 19.7262, 19.6778

Protanomaly

13.9270, 18.3135, 17.5527

Deuteranomaly

14.6284, 18.2321, 20.2009

Tritanomaly

13.5782, 19.5643, 25.9823

Monochromacy



Original Color

12.3850, 19.7262, 19.6778

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

9.9961, 13.3088, 14.8740

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3850, 19.7262, 19.6778 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(0, 139, 116)` looks like.

```
.text, #text, p{  
    color:rgb(0, 139, 116)  
}
```

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(0, 139, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 139, 116) }
```

Border

The CSS property to change the border of an element to XYZ 12.3850, 19.7262, 19.6778 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(0, 139, 116) }
```


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

```
.border{ border-color:rgb(0, 139, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 139, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 139, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 139, 116);  
box-shadow:4px 4px 4px 4px rgb(0, 139,  
116) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3850, 19.7262, 19.6778 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 139, 116) }
```

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

```
.background{ background-color: rgb(0, 139,  
116) }
```

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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