

Converting Colors

XYZ(11.7989, 19.3525, 22.0020)

Have a look what the booklet for
XYZ(11.7989, 19.3525, 22.0020)
contains.

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Color

**XYZ(12.8078, 19.8953,
21.9040)**

Conversions

Conversions Part 1

Format	Color
Hex	008B7B
RGB	0, 139, 123
RGB Percent	0%, 55%, 48%
CMY	0.9999, 0.4549, 0.5176
CMYK	1.00, 0.00, 0.12, 0.45
HSL	173°, 100%, 27%
HSV	173°, 100%, 55%
XYZ	12.8078, 19.8953, 21.9040
YIQ	95.6150, -77.7080, -34.4440

Conversions

Conversions Part 2

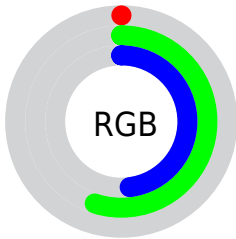
Format	Color
RYB	0, 74, 139
Decimal	35707
CIELab	51.72, -35.55, -0.43
CIELCh	52, 35.554, 180.696
Yxy	19.8953, 0.2345, 0.3643
Android (android.graphics.Color)	4278225787 (0xFF008B7B)
YUV	95.6150, 13.5008, -83.8544
Hunter-Lab	44.6041, -26.8021, 2.1070

Details

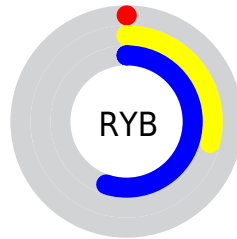
The XYZ color **12.8078, 19.8953, 21.9040** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.7417, 5.5270, 0.9917**, and the grayscale version is **11.0085, 11.5818, 12.6126**.

A 20% lighter version of the original color is **30.4640, 43.1199, 47.2748**, and **4.7258, 7.4739, 7.6721** is the 20% darker color. If you saturate the color by 10%, you get **12.8080, 19.8959, 21.9038**, and if you desaturate by 10%, it is **13.0890, 20.0291, 22.4449**.

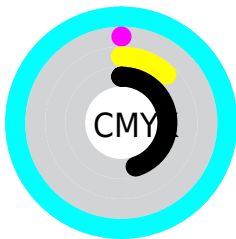
Distribution



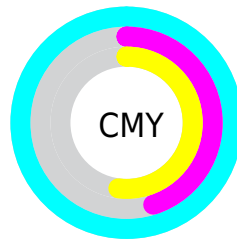
- Red (0%)
- Green (55%)
- Blue (48%)



- Red (0%)
- Yellow (29%)
- Blue (55%)



- Cyan (100%)
- Magenta (0%)
- Yellow (12%)
- Black (45%)



- Cyan (100%)
- Magenta (45%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8078, 19.8953, 21.9040 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 12.8078, 19.8953, 21.9040 by changing the saturation by 10% instead.

■ 12.8078, 19.8953,
21.9040

■ 12.8078, 19.8953,
21.9040

■ 203.3448,
251.3478, 274.9817

■ 7.3724, 12.3190,
13.5887

■ 30.5623, 43.2416,
47.4874

■ 3.7445, 6.9613,
7.6997

■ 43.6122, 59.7803,
65.5927

■ 1.5586, 3.4379,
3.8184

■ 59.9309, 80.0753,
87.7983

■ 0.3652, 1.3644,
1.5263

■ 79.8838, 104.5109,
114.5229

■ 0.0000, 0.1903,
0.2374

■ 103.8363,
133.4716, 146.1850

■ 0.0000, 0.0000,
0.0000

■ 132.1537,

167.3417, 183.2032

165.2014,
206.5056, 225.9959

■ 12.8078, 19.8953,
21.9040

■ 12.8078, 19.8953,
21.9040

■ 12.8080, 19.8959,
21.9038

■ 13.0890, 20.0291,
22.4449

■ 13.4858, 20.2218,
22.9994

■ 14.0596, 20.5055,
23.5707

■ 14.8319, 20.8914,
24.1601

■ 15.8211, 21.3889,
24.7683

■ 17.0436, 22.0065,
25.3961

■ 18.5142, 22.7518,
26.0444

■ 20.2462, 23.6317,
26.7137

■ 22.2524, 24.6527,
27.4047

Harmonies

Analogous

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



13.5015, 19.8953, 13.3486



12.8078, 19.8953, 21.9040



13.5687, 19.8953, 33.4168

Triad

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



12.8078, 19.8953, 21.9040



22.6612, 19.8953, 43.5241



22.4975, 19.8953, 8.5823

Complementary

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



12.8078, 19.8953, 21.9040



10.7417, 5.5270, 0.9917

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.



25.4957, 19.8953, 13.0493



12.8078, 19.8953, 21.9040



25.5984, 19.8953, 32.8637

Square

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



12.8078, 19.8953, 21.9040



18.9940, 19.8953, 48.0877



26.6951, 19.8953, 21.4230



18.8260, 19.8953, 7.2882

Rectangle

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



12.8078, 19.8953, 21.9040



14.8619, 19.8953, 40.8675



26.6951, 19.8953, 21.4230



23.6333, 19.8953, 9.6742

Sweetspot

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



12.8084, 19.8961, 21.9045



32.9649, 40.6470, 46.5611



9.4507, 18.5781, 3.0884



7.3601, 9.2464, 10.6283



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.



12.8084, 19.8961, 21.9045



22.8972, 35.6134, 39.0194



7.9665, 8.4760, 25.6431



5.1485, 5.6789, 6.3028



11.5634, 17.9580, 19.7895



0.0801, 0.1206, 0.1486

Inverse Universe

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



10.7417, 5.5270, 0.9917



19.2017, 9.8834, 1.5976



11.9345, 8.0624, 0.9277



5.0548, 5.0574, 5.3769



9.6980, 4.9893, 0.9138



0.0671, 0.0342, 0.0199

Previews

White Background



This preview shows how the XYZ color 12.8078, 19.8953, 21.9040 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 12.8078, 19.8953, 21.9040 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

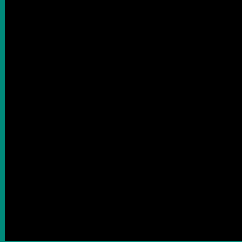
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.8078, 19.8953, 21.9040

Background



This preview shows how black text looks on a background with the XYZ color 12.8078, 19.8953, 21.9040.

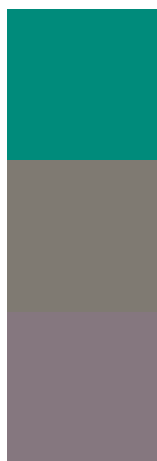


This preview shows how white text looks on a background with the XYZ color 12.8078, 19.8953,

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

12.8078, 19.8953, 21.9040

Protanopia

18.7492, 19.6460, 18.7235

Deuteranopia

20.1005, 19.7125, 22.8242



Tritanopia

14.7982, 20.0900, 30.7016

Trichromacy



Original Color

12.8078, 19.8953, 21.9040

Protanomaly

14.3234, 18.4720, 19.6402

Deuteranomaly

14.9731, 18.3594, 22.4932

Tritanomaly

13.8865, 19.9085, 27.1556

Monochromacy



Original Color

12.8078, 19.8953, 21.9040

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

10.3202, 13.6210, 15.7209

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8078, 19.8953, 21.9040 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, 123)` looks like.

```
.text, #text, p{  
    color:rgb(0, 139, 123)  
}
```

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, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 139, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.8078, 19.8953, 21.9040 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, 123) }
```


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

```
.border{ border-color:rgb(0, 139, 123) }
```

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, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 139, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 139, 123);  
box-shadow:4px 4px 4px 4px rgb(0, 139,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8078, 19.8953, 21.9040 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, 123) }
```

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

```
.background{ background-color: rgb(0, 139,  
123) }
```

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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